

# **Cancer Incidence and Mortality in Nebraska: 2010**



**September, 2013**

The Nebraska Cancer Registry contains a wealth of information, not all of which is included in this report:

What types of data are available?

- Demographic: age at diagnosis, gender, race/ethnicity, county of residence
- Medical history: date of diagnosis, primary site, cell type, stage of disease at diagnosis
- Therapy: surgery, radiation therapy, chemotherapy, immunotherapy, hormone therapy
- Follow up: length of survival, cause of death

Who may request data from the Nebraska Cancer Registry?

- Medical Researchers
- Health Planners
- Market Researchers
- Health Care Facility Administrators
- Physicians
- Nurses
- Health Care Facility Cancer Committees
- Oncology Conference Planners and Speakers
- Patient Care Evaluators
- Pharmaceutical Companies
- Government Officials
- Concerned Citizens
- Students
- Media

How do I make a request?

Contact the Office of Health Statistics at the  
Nebraska Department of Health and Human Services  
Division of Public Health  
P.O. Box 95026, Lincoln, NE 68509-5026  
Phone 402/471-2180, Monday-Friday between 8 AM and 5 PM

*Please note: To comply with confidentiality regulations, the Nebraska Department of Health and Human Services reserves the right to limit the amount and type of data that are released in response to a request.*

# NEBRASKA CANCER REGISTRY 2010 ANNUAL REPORT

Nebraska Department of Health and Human Services

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This publication was supported by Cooperative Agreement Grant Number 5U58DP003928 from the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official view of CDC.

A special thank you to Nebraska Cancer Registry Advisory Committee members who provided advice and assistance to the Nebraska Cancer Registry, and also reviewed this report.

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## EXECUTIVE SUMMARY

The Cancer Incidence and Mortality in Nebraska annual report for 2010 provides a comprehensive overview of the impact of cancer in Nebraska. The purpose of the report is to present the most recent statistics that describe cancer incidence and mortality in Nebraska, for the entire state and by county and region; in-depth analyses of selected cancer sites; and comparisons of trends between Nebraska and the United States. Findings from the report include:

- **Overall Cancer Incidence:** In 2010, there were 8,887 diagnoses of cancer among Nebraska residents. This number is slightly higher than the number of cancers that were diagnosed in 2009 (8,736).
- **Cancer Incidence by Gender:** In 2010, prostate, lung, and colorectal cancers were the most frequently diagnosed cases among Nebraska men, while breast, lung, and colorectal cancers were the most frequently diagnosed cases among Nebraska women. Taken together, these cancers accounted for more than half of all cancer cases diagnosed among Nebraska residents in 2010.
- **Cancer Incidence by Age:** During the past five years (2006-2010), almost 60% of all cancers in Nebraska occurred among people 65 years of age and older. Less than 1% were diagnosed among children and adolescents (less than 18 years of age). The average age at diagnosis was 65.8 years of age.
- **Cancer Incidence by Site:** During the past five years (2006-2010), cancers of the cervix, liver, lung, stomach and melanomas were diagnosed significantly less often among Nebraska residents when compared to the rest of the U.S., while leukemia and colorectal cancers were diagnosed significantly more often.
- **Cancer Incidence by Race:** During the past decade (2001-2010), African-Americans in Nebraska were significantly more likely to be diagnosed with myeloma, colorectal, kidney, lung, prostate, stomach, and liver cancers than were whites. Liver cancer diagnoses were also significantly more frequent among Asian-American/Pacific Islanders and Hispanics compared to whites. Hispanics were also more likely to be diagnosed with stomach cancer when compared with whites.
- **Overall Cancer Mortality:** In 2010, 3,437 Nebraska residents died from cancer, which is an increase from the 2009 cancer death total of 3,336. This is the second year in a row that cancer has surpassed heart disease as Nebraska's leading cause of death, although it first occurred among Nebraska men in 2006.
- **Cancer Mortality by Site:** During the past five years (2006-2010), deaths from cancers of the stomach, liver, lung, female breast and cervix occurred significantly less often among Nebraska residents when compared to the rest of the U.S., while deaths from colorectal cancer and cancers of the brain and central nervous system occurred significantly more often. Lung cancer was the leading cause of cancer mortality in Nebraska in 2010, accounting for more than 25% of all cancer deaths, followed by colorectal cancer. During the past two

decades, the annual rates of prostate and female breast cancer deaths in Nebraska have both declined by about 40%, which is consistent with national trends. The number of prostate cancer deaths recorded in Nebraska in 2010 (167) is the state's lowest single-year total since 1977.

- **Cancer Incidence by County:** Below are the Nebraska counties where cancer incidence during 2006-2010 was significantly different ( $p < .01$ ) from the state:

| <i>Significantly lower ▼</i> |  | <i>Significantly higher ▲</i> |                      |
|------------------------------|--|-------------------------------|----------------------|
| <i>County</i>                | <i>Primary Sites</i>                                 | <i>County</i>                 | <i>Primary Sites</i> |
| Buffalo                      | Melanoma   | Dodge                         | Prostate             |
| Cedar                        | Female breast  | Douglas                       | Lung & bronchus      |
| Dakota                       | Female breast  | Saline                        | Colon & rectum       |
| Dawson                       | Female breast, lung & bronchus, Non-Hodgkin lymphoma |                               |                      |
| Dodge                        | Melanoma   |                               |                      |
| Gage                         | Prostate   |                               |                      |
| Hall                         | Melanoma   |                               |                      |
| Hitchcock                    | Colon & rectum                                       |                               |                      |
| Jefferson                    | Female breast  |                               |                      |
| Lancaster                    | Prostate   |                               |                      |
| Perkins                      | Female breast  |                               |                      |
| Pierce                       | Female breast  |                               |                      |
| Richardson                   | Prostate   |                               |                      |
| Scotts Bluff                 | Lung & bronchus                                      |                               |                      |
| Stanton                      | Female breast, lung & bronchus, prostate             |                               |                      |
| Valley                       | Female breast  |                               |                      |
| Wayne                        | Lung & bronchus                                      |                               |                      |
| York                         | Lung & bronchus                                      |                               |                      |

- **Cancer Mortality by County:** Below are the Nebraska counties where cancer mortality during 2006-2010 was significantly different ( $p < .01$ ) from the state:

| <i>Significantly lower ▼</i> |                      | <i>Significantly higher ▲</i> |                      |
|------------------------------|----------------------|-------------------------------|----------------------|
| <i>County</i>                | <i>Primary Sites</i> | <i>County</i>                 | <i>Primary Sites</i> |
| Dawson                       | Lung & bronchus      | Douglas                       | Lung & bronchus      |
| Dixon                        | Lung & bronchus      |                               |                      |
| Lancaster                    | Colon & rectum       |                               |                      |
| Phelps                       | Lung & bronchus      |                               |                      |
| Wayne                        | Lung & bronchus      |                               |                      |

- **Annual Report Special Topic:** The special topic for this report is cancer of the pancreas. Cancer of the pancreas accounted for less than 3% of all invasive cancers diagnosed among Nebraska residents during the past five years (2006-2010), but it is now the fourth leading cause of cancer deaths in Nebraska and the United States. Because most pancreatic cancers are diagnosed when the disease is well-advanced, survival rates are low.

## INTRODUCTION

This publication represents the 24th annual statistical summary of the Nebraska Cancer Registry (NCR) since it began collecting data in 1987. The purpose of this report is to present the registry's most recent data to the citizens of the State of Nebraska. The majority of the data cover cancer diagnoses and cancer deaths that occurred between January 1, 2010 and December 31, 2010, as well as during the past five years (January 1, 2006-December 31, 2010).

The NCR was founded in 1986, when the Nebraska Unicameral authorized funding for a state cancer registry using a portion of funds generated by the state's cigarette tax. The establishment of the registry successfully combined the efforts of many Nebraska physicians, legislators, concerned citizens, and the Nebraska Medical Foundation, all of whom had worked for years toward this goal. The Nebraska Medical Foundation also helped establish the registry with financial assistance. Since 1994, the NCR has received additional funding from the Centers for Disease Control and Prevention (CDC).

The NCR is managed by the Nebraska Department of Health and Human Services (DHHS). However, registry data are collected and edited by the Nebraska Methodist Hospital of Omaha, under contract to the Nebraska Medical Foundation. Analysis of registry data and preparation of the annual statistical report are the responsibility of DHHS.

The purpose of the registry is to gather data that describe how many Nebraska residents are diagnosed with cancer, what types of cancer they have, how far the disease has advanced at the time of diagnosis, what types of treatment they receive, and how long they survive after diagnosis. These data are put to a variety of uses both inside and outside of DHHS. Within the agency, they are monitored from year to year to determine trends that are developing and to see how Nebraska's cancer experience compares to the rest of the nation. They are indispensable for investigating reports of possible cancer clusters. DHHS also uses these data to help plan and evaluate its cancer control programs. Outside of DHHS, the registry has furnished information to many individuals, institutions, and organizations, such as the North American Association of Central Cancer Registries, the University of Nebraska Medical Center, the National Cancer Institute, the American Cancer Society (ACS), and CDC. The NCR also contributes its data to several national cancer incidence databases, which are listed on page 5.

All individual records in the cancer registry are kept in strict confidence as prescribed by both state and federal law. The NCR follows all of the privacy safeguards in the Health Insurance Portability and Accountability Act (HIPAA), although some of the procedural requirements do not apply to the registry.

DHHS welcomes inquiries about cancer from the public for aggregate statistics or general information from the registry. To obtain cancer data or information about the registry not included in this report, please refer to the instructions provided inside the front cover.

An electronic copy of this report is available on the DHHS website at [http://dhhs.ne.gov/publichealth/Pages/ced\\_cancer\\_index.aspx](http://dhhs.ne.gov/publichealth/Pages/ced_cancer_index.aspx)



## **METHODOLOGY**

### **Data Collection and Management**

The NCR gathers data on Nebraska residents diagnosed and treated for malignant and in situ tumors. The registry does not include benign tumors (except for benign brain and other nervous system tumors, which became reportable as of January 1, 2004), benign polyps, and basal cell and squamous cell carcinomas of the skin. Information gathered from each case includes the patient's name, address, birth date, race, gender, and Social Security number; date of diagnosis; primary site of the cancer (coded according to the International Classification of Diseases for Oncology, 3<sup>rd</sup> edition [ICD-O-3]); stage of disease at diagnosis; facility where the initial diagnosis was made; basis of staging; method of diagnostic confirmation; and histological type (also classified according to the ICD-O-3). Follow-up information is gathered periodically on registered cases, and includes the date of last contact with the patient, status of disease, type of additional treatment, quality of survival; and, if death has occurred, the date and cause of death and the status of the cancer at the time of death. The registry collects this information from every hospital in the state, excluding facilities operated by the U.S. Department of Veterans Affairs. The registry also includes Nebraska residents who are diagnosed with and/or treated for cancer out of state, as well as cases diagnosed and/or treated at pathology laboratories, radiation therapy sites, outpatient surgery facilities, physicians' offices, and cases identified from death certificates.

Nebraska cancer mortality data are obtained from death certificates on file with DHHS. Mortality data are available for every Nebraska resident who dies from cancer, whether death occurs in or outside of Nebraska. The mortality data presented in this report are limited to those deaths where cancer is listed as the underlying (i.e., primary) cause of death. Causes of death are coded according to the Tenth Edition of the International Classification of Disease (ICD-10).

The U.S. cancer incidence data presented in this report were prepared by CDC's National Program of Cancer Registries (NPCR). NPCR supports central cancer registries in 45 states (including Nebraska), the District of Columbia, and several U.S. territories, and compiles the data collected by these registries to calculate estimates of U.S. cancer incidence. The mortality data presented in this report were compiled by the National Center for Health Statistics and include all cancer deaths occurring in the United States. Incidence data from NPCR and mortality data from NCHS are available through 2010.

### **Confidentiality**

All data obtained by the NCR from the medical records of individual patients are held in strict confidence by DHHS. As specified in state statute, researchers may obtain case-specific and/or patient-identifiable information from the registry by submitting a written application that describes how the data will be used for scientific study. In situations where contact with a patient or patient's family is proposed, the applicant must substantiate the need for any such contact and submit approval from an Institutional Review Board. In addition, before any individual's name can be given to a researcher,

the registry will obtain permission from the individual that they are willing to be a research subject. Upon favorable review by DHHS, the applicant must also agree to maintain the confidentiality and security of the data throughout the course of the study, to destroy or return the registry data at the end of the study and to present material to the registry prior to publication to assure that no identifiable information is released.

Aggregate data (i.e., statistical information) from the registry are considered open to the public and are available upon request. Details on how to obtain such data are provided inside the front cover of this report.

## **Quality Assurance**

The NCR and reporting facilities spend a great deal of time and energy to ensure that the information they gather is both accurate and complete, and these efforts have met with great success. For 16 consecutive years (1995-2010), the NCR has met all of the criteria necessary to earn the Gold Standard of data quality awarded by the North American Association of Central Cancer Registries (NAACCR). These criteria include:

- 1) Completeness of case ascertainment—The registry must find at least 95% of the total number of cases that are estimated to have occurred.
- 2) Completeness of information—The proportion of registry cases missing information on age at diagnosis, gender, and county of residence must be no more than 2%, and the proportion missing information on race must be no more than 3%.
- 3) Data accuracy—Error rates based on edit checks of selected data items must be no greater than 1%.
- 4) Timeliness—All data for a single calendar year must be submitted to NAACCR for review no more than 23 months after the year has ended.

Gold standard certification also requires that all cases pass strict edits and that the proportion of registry cases found solely through a review of death certificates must be no more than 3%. Lastly, the proportion of duplicate cases in the registry must be no more than one per 1,000.

Since the NCR has achieved the highest quality standards, its data are now included in several national cancer incidence databases. These databases compile information from cancer registries throughout the United States and Canada that meet the same data quality standards as the NCR. These databases include:

- 1) *Cancer in North America* (<http://www.naaccr.org>)
- 2) *United States Cancer Statistics* (<http://apps.nccd.cdc.gov/uscs>)
- 3) *Cancer Facts & Figures 2010* ([http://www.cancer.org/docroot/stt/stt\\_0.asp](http://www.cancer.org/docroot/stt/stt_0.asp))
- 4) *Cancer Control PLANET* (<http://cancercontrolplanet.cancer.gov/>)

## Definitions

Several technical terms are used in presenting the information in this report. The following definitions are provided here to assist the reader.

### ***Incidence rate***

Incidence rate is the number of new cases of a disease that occur within a specific population during a given time period, divided by the size of the population. For example, if 10 residents of a county with 20,000 residents are diagnosed with colorectal cancer during a single year, then the incidence rate for that county for that year is .0005. Since cancer incidence rates are usually expressed per 100,000 population, this figure is then multiplied by 100,000 to yield a rate of 50 per 100,000 per year.

### ***Mortality rate***

Mortality rate is the number of deaths that occur within a specific population during a given time period, divided by the size of the population. Like incidence rates, mortality rates are usually expressed as the number of deaths per 100,000 population per year.

### ***Age-adjusted rate***

Age-adjustment is a simple mathematical procedure that makes it possible to compare rates between populations that have different age distributions, and to compare rates within a single population over time. All of the incidence and mortality rates in this report are age-adjusted using the U.S. population in 2000 as the standard. Statewide and national rates are age-adjusted using 19 age groups (<1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-79, 80-84, 85+ years), while county and regional rates are age-adjusted using 11 age groups (<1, 1-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85+ years).

### ***Stage of Disease at Diagnosis***

#### ***In situ***

Tumors diagnosed as in situ consist of malignant cells that are growing in place. In situ tumors are confined to the cell group of origin, and have not penetrated the supporting structure of the organ on which they arose.

#### ***Malignant***

Tumors diagnosed as malignant have spread beyond the cell group of the organ where they began, and may have spread further. The organ where a malignancy began is also known as the primary site. Malignant tumors are subdivided into three categories:

Localized--A localized malignant tumor has not spread beyond the organ where it started.

Regional--A regional malignant tumor has spread beyond the organ where it began, by direct extension to immediately adjacent organs or tissues and/or by spread to regional lymph nodes.

Distant--A distant malignant tumor has spread beyond the primary site to distant parts of the body.

## Data Analysis

All of the rates presented in this report were calculated using population estimates developed by the U.S. Census Bureau and released in 2011. Rates for multiple years (2006-2010) (see Tables 1, 2, 5, 6, 9-20) were calculated using population estimates for the years 2006-2010 combined, while rates for 2001-2010 (see Tables 3 and 7) were calculated using population estimates for the years 2001-2010 combined. Incidence and mortality rates that are based on more than one year of data should be interpreted as an average annual rate.

All of the data presented in this report are current through November 13, 2012. However, because some cases diagnosed during or even before 2010 may not yet have been reported to the registry, the incidence data presented in this report should be considered subject to change. **In addition, the incidence data reported in previous editions of this report should no longer be considered complete.**

Internet users should also be aware that the cancer statistics for Nebraska that are published in this report and those that are posted on non-DHHS websites (see page 5) may differ. Some discrepancies may be the result of differences in the dates at which the data were compiled. As noted above, Nebraska incidence data published in this report include all cases reported to the registry through November 13, 2012; Nebraska data available on the CDC/NPCR website include cases that were reported through November 1, 2011.

With the exception of bladder cancer, all of the site-specific incidence rates in this report were calculated with malignant cases only, to maintain comparability with statistics from the NPCR and other cancer registries throughout the United States. For bladder cancer, incidence rates were calculated with malignant and in situ cases combined. All incidence and mortality rates in this report were calculated per 100,000 population, and were age-adjusted according to the age distribution of the population of the United States in 2000. Statewide rates were also calculated for males and females separately, and for both sexes combined. Rates based on five or fewer events are not presented due to their unreliability. Also, the number of cases for any county with five or fewer cases in a single year is not shown in order to reduce the possibility of identifying a specific person.

To evaluate the statistical significance of the differences between rates, confidence intervals for rates were calculated using the formula  $CI = r \pm (RC \times SE)$ , where CI = confidence interval,  $r$  = rate,  $RC$  = 1.96 (for 95% confidence intervals) or 2.58 (for 99% confidence intervals), and  $SE$  = standard error. The standard error for a rate was determined by dividing the rate by the square root of the number of events (cancer diagnoses or deaths). A statistically significant difference exists and is indicated in those instances where the confidence intervals of a pair of rates being compared to each other do not intersect.

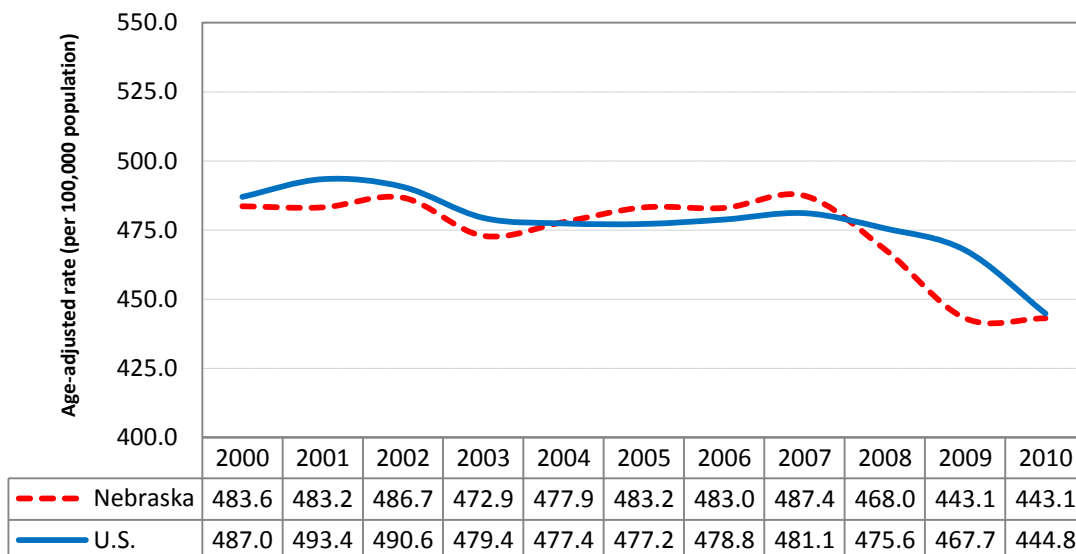
## CANCER INCIDENCE IN NEBRASKA

The Nebraska Cancer Registry recorded 8,887 diagnoses of cancer among Nebraska residents in 2010, an increase from the 8,736 diagnoses recorded in 2009. The 2010 number translates into an incidence rate of 443.1 cases per 100,000 population. By primary site, cancers of the lung, breast, prostate, colon and rectum occurred most frequently, accounting for more than half (51.1%) of all diagnoses. Recent registry experience suggests that as the registry continues to find cases, the final count for 2010 will probably increase by 100 to 300 cases.

Table 1 presents the number and rate of cancers diagnosed among Nebraska residents during 2010 and 2006-2010, for all sites combined and for cancers of specific sites. The most current estimates of U.S. cancer incidence, which cover the years 2005-2009, are also included. Comparison of the most recent state and national incidence rates for the past five years shows significant differences ( $p < .01$ ) for cancers of the cervix, prostate, stomach, lung, and liver (Nebraska rates lower than the U.S.) and for leukemia and colorectal cancers (Nebraska rates higher than the U.S.). Table 2 presents the number of cancers diagnosed in Nebraska during 2006-2010 by age at diagnosis. Table 3 presents Nebraska incidence data by race and ethnicity for the years 2000-2010. Table 4 presents the number of cancers diagnosed and incidence rates for 2010 and 2006-2010 by county of residence, with comparable Nebraska and U.S. rates included. The graph below presents the annual incidence rates for all cancers for Nebraska and the United States since 2000.

### Cancer (All Sites)

Incidence Rates, Nebraska & U.S. (2000-2010)



**TABLE 1: Cancer Incidence**  
**Number of Cases and Rates, by Selected Primary Site and Gender**  
 Nebraska & U.S. (2010 and 2006-2010)

| Site                           | NEBRASKA<br>2010 |              |               |                |              |               | NEBRASKA<br>2006-2010 |              |               |                |              |               | U.S.<br>2006-2010 |                |               |
|--------------------------------|------------------|--------------|---------------|----------------|--------------|---------------|-----------------------|--------------|---------------|----------------|--------------|---------------|-------------------|----------------|---------------|
|                                | Male<br>No.      | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>No.           | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>Rate      | Female<br>Rate | Total<br>Rate |
| All Sites                      | 4,489            | 489.1        | 4,398         | 410.7          | 8,887        | 443.1         | 23,176                | 526.2        | 22,006        | 420.9          | 45,184       | 464.5         | 541.5             | 417.9          | 469.3         |
| Oral Cavity & Pharynx          | 141              | 14.6         | 91            | 8.1            | 232          | 11.1          | 729                   | 15.9         | 366           | 6.8            | 1,095        | 11.1          | 16.5              | 6.2            | 11.0          |
| Esophagus                      | 72               | 7.9          | 20            | 1.8            | 92           | 4.5           | 375                   | 8.4          | 109           | 2.0            | 484          | 4.9           | 8.5               | 1.9            | 4.9           |
| Stomach                        | 76               | 8.4          | 50            | 4.4            | 126          | 6.2           | 339                   | 7.7          | 186           | 3.4            | 525          | 5.3           | 9.3               | 4.6            | 6.7           |
| Colon & Rectum (Colorectal)    | 432              | 46.7         | 473           | 42.0           | 905          | 44.3          | 2,519                 | 57.7         | 2,485         | 44.4           | 5,004        | 50.6          | 51.7              | 39.1           | 44.7          |
| Liver & Intrahepatic Bile Duct | 77               | 8.1          | 32            | 3.0            | 109          | 5.3           | 340                   | 7.5          | 130           | 2.5            | 470          | 4.8           | 10.6              | 3.6            | 6.9           |
| Pancreas                       | 103              | 11.2         | 116           | 10.3           | 219          | 10.7          | 560                   | 12.7         | 584           | 10.5           | 1,144        | 11.5          | 13.7              | 10.7           | 12.0          |
| Lung & Bronchus                | 634              | 70.0         | 545           | 49.9           | 1,179        | 58.6          | 3,239                 | 74.7         | 2,737         | 51.2           | 5,978        | 61.3          | 81.3              | 55.7           | 66.6          |
| Melanoma of the Skin           | 176              | 19.2         | 163           | 16.5           | 339          | 17.5          | 927                   | 21.3         | 745           | 15.5           | 1,672        | 17.8          | 24.3              | 15.5           | 19.1          |
| Breast                         | 16               | 1.8          | 1,229         | 116.3          | 1,245        | 62.1          | 53                    | 1.2          | 6,257         | 122.3          | 6,310        | 65.3          | 1.4               | 121.9          | 65.9          |
| Uterine Cervix                 | ---              | ---          | 54            | 6.2            | ---          | ---           | ---                   | ---          | 297           | 6.8            | ---          | ---           | ---               | 8.0            | ---           |

**TABLE 1 (continued): Cancer Incidence**

| Site                         | NEBRASKA<br>2010 |              |               |                |              |               | NEBRASKA<br>2006-2010 |              |               |                |              |               | U.S.<br>2006-2010 |                |               |
|------------------------------|------------------|--------------|---------------|----------------|--------------|---------------|-----------------------|--------------|---------------|----------------|--------------|---------------|-------------------|----------------|---------------|
|                              | Male<br>No.      | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>No.           | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>Rate      | Female<br>Rate | Total<br>Rate |
| Uterine Corpus & Unspecified | ---              | ---          | 257           | 24.0           | ---          | ---           | ---                   | ---          | 1,321         | 25.4           | ---          | ---           | ---               | 23.7           | ---           |
| Ovary                        | ---              | ---          | 111           | 10.4           | ---          | ---           | ---                   | ---          | 578           | 11.1           | ---          | ---           | ---               | 12.2           | ---           |
| Prostate                     | 1,216            | 129.6        | ---           | ---            | ---          | ---           | 6,424                 | 143.0        | ---           | ---            | ---          | ---           | 146.2             | ---            | ---           |
| Kidney & Renal Pelvis        | 202              | 21.9         | 130           | 12.5           | 332          | 16.9          | 988                   | 21.9         | 640           | 12.4           | 1,628        | 16.8          | 21.3              | 11.2           | 15.8          |
| Urinary Bladder              | 303              | 35.1         | 90            | 7.8            | 393          | 19.8          | 1,481                 | 35.0         | 483           | 8.6            | 1,964        | 20.0          | 36.8              | 9.1            | 20.9          |
| Brain & Other Nervous System | 74               | 8.1          | 66            | 6.6            | 140          | 7.4           | 359                   | 8.2          | 311           | 6.3            | 670          | 7.2           | 7.9               | 5.7            | 6.7           |
| Thyroid                      | 58               | 6.2          | 187           | 20.6           | 245          | 13.4          | 261                   | 5.8          | 919           | 20.1           | 1,180        | 13.0          | 6.2               | 18.2           | 12.3          |
| Hodgkin Lymphoma             | 22               | 2.4          | 17            | 1.9            | 39           | 2.2           | 151                   | 3.4          | 117           | 2.6            | 268          | 3.0           | 3.2               | 2.5            | 2.8           |
| Non-Hodgkin Lymphoma         | 207              | 22.7         | 198           | 18.0           | 405          | 20.2          | 1,020                 | 23.5         | 943           | 17.6           | 1,963        | 20.2          | 23.1              | 16.1           | 19.2          |
| Myeloma                      | 61               | 6.6          | 50            | 4.4            | 111          | 5.5           | 309                   | 7.1          | 236           | 4.3            | 545          | 5.6           | 7.3               | 4.8            | 5.9           |
| Leukemia                     | 151              | 16.9         | 117           | 10.6           | 268          | 13.4          | 752                   | 17.3         | 587           | 10.9           | 1,339        | 13.7          | 16.2              | 9.9            | 12.6          |

Total rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

Gender-specific rates are per 100,000 male or female population and are age-adjusted to the 2000 U.S. population

**TABLE 2: Cancer Incidence**  
**Number of Cases and Percentage Distribution, by Selected Primary Site and Age at Diagnosis**  
 Nebraska (2006-2010)

|                                | <u>0-17 Yrs.</u> |          | <u>18-44 Yrs.</u> |          | <u>45-64 Yrs.</u> |          | <u>65+ Yrs</u> |          | <u>TOTAL</u>  |          |
|--------------------------------|------------------|----------|-------------------|----------|-------------------|----------|----------------|----------|---------------|----------|
|                                | <u>Number</u>    | <u>%</u> | <u>Number</u>     | <u>%</u> | <u>Number</u>     | <u>%</u> | <u>Number</u>  | <u>%</u> | <u>Number</u> | <u>%</u> |
| All Sites                      | 378              | 0.8      | 3,216             | 7.1      | 15,737            | 34.8     | 25,853         | 57.2     | 45,184        | 100.0    |
| Oral Cavity & Pharynx          | 4                | 0.4      | 72                | 6.6      | 496               | 45.3     | 523            | 47.8     | 1,095         | 100.0    |
| Esophagus                      | 0                | 0.0      | 11                | 2.3      | 173               | 35.7     | 300            | 62.0     | 484           | 100.0    |
| Stomach                        | 1                | 0.2      | 27                | 5.1      | 171               | 32.6     | 326            | 62.1     | 525           | 100.0    |
| Colon & Rectum (Colorectal)    | 3                | 0.1      | 191               | 3.8      | 1,399             | 28.0     | 3,411          | 68.2     | 5,004         | 100.0    |
| Liver & Intrahepatic Bile Duct | 6                | 1.3      | 22                | 4.7      | 201               | 42.8     | 241            | 51.3     | 470           | 100.0    |
| Pancreas                       | 0                | 0.0      | 12                | 1.0      | 325               | 28.4     | 807            | 70.5     | 1,144         | 100.0    |
| Lung & Bronchus                | 2                | 0.0      | 87                | 1.5      | 1,708             | 28.6     | 4,181          | 69.9     | 5,978         | 100.0    |
| Melanoma of the Skin           | 5                | 0.3      | 341               | 20.4     | 645               | 38.6     | 681            | 40.7     | 1,672         | 100.0    |
| Female Breast                  | 0                | 0.0      | 600               | 9.6      | 2,789             | 44.6     | 2,868          | 45.8     | 6,257         | 100.0    |
| Uterine Cervix                 | 1                | 0.3      | 138               | 46.5     | 111               | 37.4     | 47             | 15.8     | 297           | 100.0    |
| Uterine Corpus & Unspecified   | 0                | 0.0      | 87                | 6.6      | 699               | 52.9     | 535            | 40.5     | 1,321         | 100.0    |
| Ovary                          | 2                | 0.3      | 55                | 9.5      | 257               | 44.5     | 264            | 45.7     | 578           | 100.0    |
| Prostate                       | 0                | 0.0      | 18                | 0.3      | 2,460             | 38.3     | 3,946          | 61.4     | 6,424         | 100.0    |
| Kidney & Renal Pelvis          | 24               | 1.5      | 119               | 7.3      | 669               | 41.1     | 816            | 50.1     | 1,628         | 100.0    |
| Urinary Bladder                | 0                | 0.0      | 30                | 1.5      | 435               | 22.1     | 1,499          | 76.3     | 1,964         | 100.0    |
| Brain & Other Nervous System   | 87               | 13.0     | 124               | 18.5     | 196               | 29.2     | 263            | 39.3     | 670           | 100.0    |
| Thyroid                        | 8                | 0.7      | 393               | 33.3     | 554               | 46.9     | 225            | 19.1     | 1,180         | 100.0    |
| Hodgkin Lymphoma               | 32               | 11.9     | 136               | 50.7     | 54                | 20.1     | 46             | 17.2     | 268           | 100.0    |
| Non-Hodgkin Lymphoma           | 30               | 1.5      | 140               | 7.1      | 621               | 31.6     | 1,172          | 59.7     | 1,963         | 100.0    |
| Myeloma                        | 0                | 0.0      | 20                | 3.7      | 165               | 30.3     | 360            | 66.1     | 545           | 100.0    |
| Leukemia                       | 92               | 6.9      | 106               | 7.9      | 356               | 26.6     | 785            | 58.6     | 1,339         | 100.0    |

NOTE: Due to rounding, percentages may not sum to 100.0.



**TABLE 3: Cancer Incidence**  
**Number of Cases and Rates, All Sites and Top 10 Primary Sites, by Race and Ethnicity**  
**Nebraska (2001-2010)**

| Rank | <u>White</u>                 |               |             | <u>African-American</u>        |               |             | <u>Native American</u>         |               |             | <u>Asian/Pacific Islander</u>  |               |             | <u>Hispanic</u>                |               |             |
|------|------------------------------|---------------|-------------|--------------------------------|---------------|-------------|--------------------------------|---------------|-------------|--------------------------------|---------------|-------------|--------------------------------|---------------|-------------|
|      | <u>Site</u>                  | <u>Number</u> | <u>Rate</u> | <u>Site</u>                    | <u>Number</u> | <u>Rate</u> | <u>Site</u>                    | <u>Number</u> | <u>Rate</u> | <u>Site</u>                    | <u>Number</u> | <u>Rate</u> | <u>Site</u>                    | <u>Number</u> | <u>Rate</u> |
|      | All Sites                    | 84,299        | 468.7       | All Sites                      | 2,566         | 511.6       | All Sites                      | 339           | 359.3       | All Sites                      | 475           | 288.1       | All Sites                      | 1,430         | 284.2       |
| 1    | Female Breast                | 12,008        | 126.9       | Prostate                       | 445           | 200.6       | Lung & Bronchus                | 48            | 66.6        | Lung & Bronchus                | 68            | 43.6        | Female Breast                  | 171           | 59.7        |
| 2    | Prostate                     | 11,988        | 146.6       | Lung & Bronchus                | 405           | 87.1        | Female Breast                  | 41            | 65.4        | Colon & Rectum                 | 64            | 48.1        | Prostate                       | 145           | 77.9        |
| 3    | Lung & Bronchus              | 11,310        | 62.6        | Female Breast                  | 337           | 117.7       | Colon & Rectum                 | 40            | 43.4        | Female Breast                  | 62            | 58.8        | Colon & Rectum                 | 128           | 30.9        |
| 4    | Colon & Rectum               | 9,863         | 53.5        | Colon & Rectum                 | 296           | 65.2        | Kidney & Renal Pelvis          | 33            | 28.8        | Prostate                       | 35            | 63.9        | Lung & Bronchus                | 117           | 33.7        |
| 5    | Urinary Bladder              | 3,878         | 21.1        | Kidney & Renal Pelvis          | 113           | 22.8        | Prostate                       | 25            | 71.6        | Liver & Intrahepatic Bile Duct | 32            | 18.6        | Kidney & Renal Pelvis          | 78            | 14.0        |
| 6    | Non-Hodgkin Lymphoma         | 3,694         | 20.5        | Non-Hodgkin Lymphoma           | 77            | 13.9        | Non-Hodgkin Lymphoma           | 14            | 11.8        | Thyroid                        | 25            | 8.3         | Thyroid                        | 71            | 8.8         |
| 7    | Melanoma                     | 2,783         | 16.1        | Pancreas                       | 74            | 16.0        | Liver & Intrahepatic Bile Duct | 12            | 13.6        | Non-Hodgkin Lymphoma           | 24            | 12.2        | Leukemia                       | 67            | 7.8         |
| 8    | Kidney & Renal Pelvis        | 2,737         | 15.3        | Liver & Intrahepatic Bile Duct | 68            | 11.6        | Oral Cavity & Pharynx          | 12            | 12.0        | Oral Cavity & Pharynx          | 19            | 11.8        | Non-Hodgkin Lymphoma           | 64            | 11.5        |
| 9    | Uterine Corpus & Unspecified | 2,558         | 26.9        | Urinary Bladder                | 61            | 13.6        | Leukemia                       | 11            | 10.0        | Pancreas                       | 16            | 11.1        | Stomach                        | 51            | 11.3        |
| 10   | Leukemia                     | 2,524         | 14.0        | Myeloma                        | 57            | 12.0        | Uterine Corpus & Unspecified   | 8             | 14.3        | Cervix                         | 14            | 12.6        | Liver & Intrahepatic Bile Duct | 49            | 12.5        |

Rates are per 100,000 population, excluding gender-specific sites (prostate, female breast, ovary), which are per 100,000 male or female population. All rates are age-adjusted to the 2000 U.S. population.

**TABLE 4: Cancer (All Sites) Incidence**  
**Number of Cases and Rates, by County of Residence**  
 Nebraska & U.S. (2010 and 2006-2010)

|               | <u>2010</u>    |             | <u>2006-2010</u> |             |
|---------------|----------------|-------------|------------------|-------------|
|               | <u># Cases</u> | <u>Rate</u> | <u># Cases</u>   | <u>Rate</u> |
| U.S.          | 1,392,876      | 444.8       | 7,074,447        | 469.3       |
| NEBRASKA      | 8,887          | 443.1       | 45,184           | 464.5       |
| <u>COUNTY</u> |                |             |                  |             |
| ADAMS         | 172            | 463.0       | 884              | 484.9       |
| ANTELOPE      | 48             | 468.4       | 235              | 470.6       |
| ARTHUR        | *              | *           | 9                | 259.8▽      |
| BANNER        | *              | *           | 21               | 449.0       |
| BLAINE        | *              | *           | 11               | 381.9       |
| BOONE         | 38             | 465.4       | 200              | 489.9       |
| BOX BUTTE     | 62             | 439.5       | 295              | 416.3       |
| BOYD          | 13             | 439.5       | 61               | 371.0       |
| BROWN         | 19             | 306.5       | 107              | 401.1       |
| BUFFALO       | 204            | 440.8       | 1047             | 467.8       |
| BURT          | 53             | 483.7       | 256              | 453.3       |
| BUTLER        | 46             | 391.2       | 231              | 400.0▽      |
| CASS          | 122            | 409.9       | 707              | 497.9       |
| CEDAR         | 40             | 284.8▽      | 205              | 308.2▼      |
| CHASE         | 31             | 513.2       | 147              | 483.3       |
| CHERRY        | 27             | 295.0▽      | 178              | 419.0       |
| CHEYENNE      | 61             | 514.5       | 284              | 457.9       |
| CLAY          | 49             | 532.5       | 234              | 518.6       |
| COLFAX        | 54             | 475.6       | 254              | 443.6       |
| CUMING        | 50             | 371.5       | 264              | 403.8▽      |
| CUSTER        | 59             | 394.5       | 358              | 440.4       |
| DAKOTA        | 80             | 400.7       | 425              | 425.3       |
| DAWES         | 33             | 291.1▼      | 204              | 392.1▽      |
| DAWSON        | 102            | 377.1       | 540              | 412.3▼      |
| DEUEL         | 12             | 376.2       | 68               | 408.5       |
| DIXON         | 46             | 552.7       | 182              | 452.2       |
| DODGE         | 218            | 439.0       | 1210             | 507.1△      |
| DOUGLAS       | 2,292          | 468.1       | 11,696           | 495.6▲      |
| DUNDY         | 15             | 570.7       | 71               | 455.8       |
| FILLMORE      | 38             | 485.8       | 217              | 490.2       |
| FRANKLIN      | 15             | 289.2       | 97               | 366.1▽      |
| FRONTIER      | 17             | 458.6       | 102              | 544.7       |
| FURNAS        | 34             | 430.8       | 192              | 476.4       |
| GAGE          | 139            | 445.4       | 722              | 461.4       |
| GARDEN        | 21             | 506.2       | 77               | 436.5       |
| GARFIELD      | 19             | 481.3       | 86               | 475.8       |
| GOSPER        | 21             | 602.2       | 89               | 563.1       |
| GRANT         | *              | *           | 25               | 683.8       |
| GREELEY       | 11             | 274.2       | 82               | 405.5       |
| HALL          | 293            | 456.0       | 1,509            | 491.0       |
| HAMILTON      | 41             | 347.9       | 238              | 417.9       |
| HARLAN        | 33             | 575.2       | 145              | 504.1       |
| HAYES         | 8              | 525.4       | 24               | 356.2       |
| HITCHCOCK     | 14             | 269.6▽      | 108              | 446.8       |
| HOLT          | 67             | 450.6       | 327              | 431.0       |
| HOOKER        | 7              | 520.0       | 32               | 479.3       |
| HOWARD        | 37             | 415.8       | 213              | 498.2       |
| JEFFERSON     | 49             | 392.9       | 242              | 399.7▽      |

**TABLE 4 (continued): Cancer (All Sites) Incidence**

| <u>COUNTY</u> | <u>2010</u>    |             | <u>2006-2010</u> |             |
|---------------|----------------|-------------|------------------|-------------|
|               | <u># Cases</u> | <u>Rate</u> | <u># Cases</u>   | <u>Rate</u> |
| JOHNSON       | 38             | 541.3       | 165              | 462.1       |
| KEARNEY       | 49             | 540.4       | 178              | 405.5       |
| KEITH         | 60             | 491.8       | 240              | 390.7▼      |
| KEYA PAHA     | *              | *           | 29               | 416.9       |
| KIMBALL       | 26             | 457.7       | 126              | 452.0       |
| KNOX          | 59             | 472.0       | 322              | 487.8       |
| LANCASTER     | 1,185          | 434.6       | 5,931            | 455.1       |
| LINCOLN       | 207            | 465.7       | 1,017            | 470.9       |
| LOGAN         | 8              | 684.8       | 27               | 517.3       |
| LOUP          | 8              | 736.9       | 39               | 810.2▲      |
| McPHERSON     | *              | *           | 16               | 438.3       |
| MADISON       | 190            | 468.4       | 997              | 507.4△      |
| MERRICK       | 47             | 457.0       | 229              | 441.1       |
| MORRILL       | 30             | 408.1       | 139              | 409.3       |
| NANCE         | 28             | 510.9       | 113              | 404.8       |
| NEMAHA        | 36             | 376.8       | 215              | 448.6       |
| NUCKOLLS      | 27             | 369.3       | 162              | 425.7       |
| OTOE          | 94             | 444.9       | 437              | 423.2       |
| PAWNEE        | 18             | 347.4       | 99               | 405.5       |
| PERKINS       | 23             | 452.9       | 89               | 397.0       |
| PHELPS        | 46             | 412.5       | 247              | 402.5▽      |
| PIERCE        | 50             | 502.4       | 216              | 460.2       |
| PLATTE        | 163            | 427.1       | 803              | 444.9       |
| POLK          | 33             | 412.7       | 175              | 440.0       |
| RED WILLOW    | 65             | 427.2       | 356              | 467.7       |
| RICHARDSON    | 59             | 472.5       | 298              | 464.1       |
| ROCK          | 11             | 424.8       | 66               | 583.9       |
| SALINE        | 73             | 456.5       | 415              | 515.2       |
| SARPY         | 598            | 459.9       | 2,944            | 489.6△      |
| SAUNDERS      | 117            | 456.8       | 572              | 455.2       |
| SCOTTSBLUFF   | 215            | 469.1       | 1,029            | 446.2       |
| SEWARD        | 93             | 471.3       | 449              | 467.7       |
| SHERIDAN      | 29             | 338.4       | 155              | 376.3▼      |
| SHERMAN       | 25             | 465.1       | 123              | 486.1       |
| SIOUX         | *              | *           | 19               | 177.8▼      |
| STANTON       | 13             | 190.6▼      | 71               | 206.9▼      |
| THAYER        | 37             | 399.2       | 208              | 446.7       |
| THOMAS        | *              | *           | 17               | 302.1▽      |
| THURSTON      | 19             | 279.0▽      | 145              | 438.9       |
| VALLEY        | 19             | 240.2▼      | 125              | 344.6▼      |
| WASHINGTON    | 102            | 418.6       | 485              | 425.0       |
| WAYNE         | 42             | 415.3       | 216              | 433.8       |
| WEBSTER       | 35             | 571.5       | 167              | 540.0       |
| WHEELER       | *              | *           | 17               | 291.1▽      |
| YORK          | 73             | 395.2       | 385              | 424.9       |

\*Number and rate for single years are not shown if based on five or fewer cases  
Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

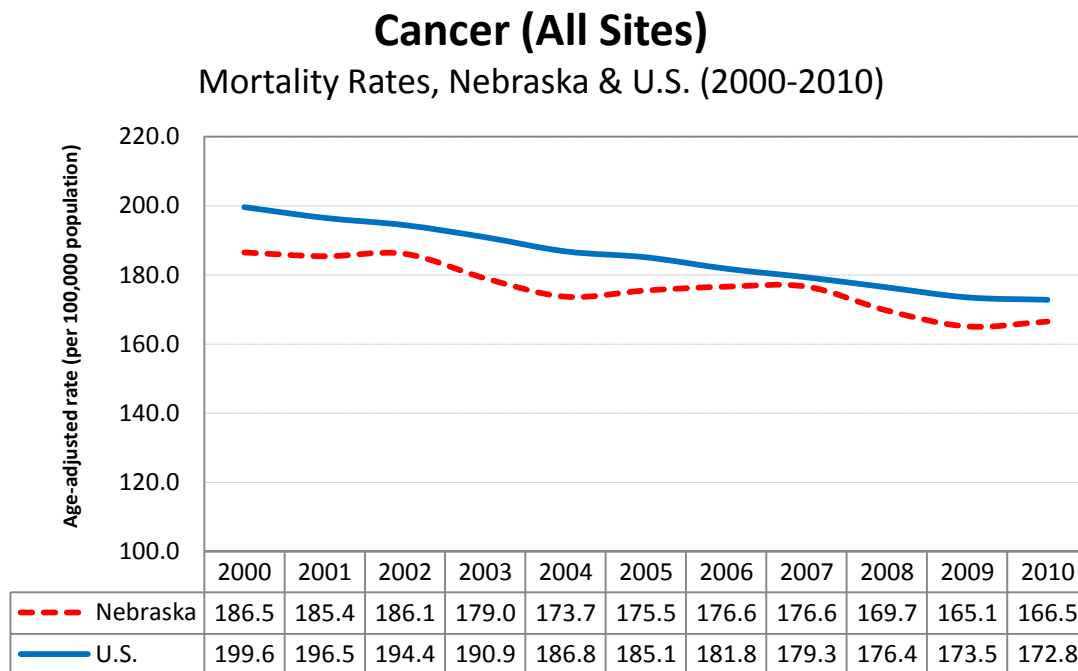
▲county rate is significantly higher than the state rate (99% confidence level)

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## CANCER MORTALITY IN NEBRASKA

In 2010, 3,437 Nebraska residents died from cancer, a number that translates into a rate of 166.5 cancer deaths per 100,000 population. These figures represent an increase from the state's 2009 figures of 3,336 (cancer deaths) and 165.1 (cancer mortality rate). For the second consecutive year, cancer was the leading cause of mortality among Nebraska residents in 2010, surpassing heart disease by 93 deaths. By primary site, cancers of the lung, breast, prostate, colon and rectum accounted for just under half (49.0%) of Nebraska's cancer deaths in 2010.

Table 5 presents the number and rate of cancer deaths that occurred among Nebraska residents during 2010 and 2006-2010, for all sites combined and for specific sites. The most recent U.S. cancer mortality rates, which cover the years 2005 through 2009, are also included. Comparison of the most recent state and national mortality rates for the past five years shows significant differences ( $p < .01$ ) for cancers of the stomach, liver, lung, female breast, and cervix (Nebraska rates lower than the U.S.) and for colorectal cancer and cancers of the brain and central nervous system (Nebraska rates higher than the U.S.). Table 6 presents the number of Nebraska cancer deaths during 2006-2010 by age at death. Table 7 presents Nebraska cancer mortality data by race and ethnicity for the years 2001-2010. Table 8 presents the number of cancer deaths and mortality rates for 2010 and 2006-2010 by county of residence, with comparable state and U.S. rates included. The graph below shows the annual mortality rates for cancer for Nebraska and the U.S. since 2000.



**TABLE 5: Cancer Mortality**  
**Number of Deaths and Rates, by Selected Primary Site and Gender**  
 Nebraska & U.S. (2010 and 2006-2010)

| Site                           | NEBRASKA<br>2010 |       |               |       |              |       | NEBRASKA<br>2006-2010 |       |               |       |              |       | U.S.<br>2006-2010 |                |               |
|--------------------------------|------------------|-------|---------------|-------|--------------|-------|-----------------------|-------|---------------|-------|--------------|-------|-------------------|----------------|---------------|
|                                | Male<br>No.      | Rate  | Female<br>No. | Rate  | Total<br>No. | Rate  | Male<br>No.           | Rate  | Female<br>No. | Rate  | Total<br>No. | Rate  | Male<br>Rate      | Female<br>Rate | Total<br>Rate |
| All Sites                      | 1,792            | 200.0 | 1,645         | 142.2 | 3,437        | 166.5 | 8,923                 | 208.3 | 8,130         | 143.8 | 17,053       | 170.6 | 215.1             | 150.1          | 176.7         |
| Oral Cavity & Pharynx          | 39               | 4.0   | 20            | 1.7   | 59           | 2.8   | 134                   | 3.0   | 93            | 1.6   | 227          | 2.3   | 3.8               | 1.4            | 2.5           |
| Esophagus                      | 89               | 9.7   | 18            | 1.6   | 107          | 5.3   | 357                   | 8.0   | 87            | 1.5   | 444          | 4.5   | 7.6               | 1.6            | 4.3           |
| Stomach                        | 29               | 3.1   | 21            | 1.8   | 50           | 2.4   | 154                   | 3.5   | 100           | 1.7   | 254          | 2.5   | 4.9               | 2.6            | 3.5           |
| Colon & Rectum (Colorectal)    | 180              | 20.0  | 178           | 14.7  | 358          | 17.1  | 918                   | 21.3  | 895           | 14.9  | 1,813        | 17.8  | 19.6              | 13.9           | 16.4          |
| Liver & Intrahepatic Bile Duct | 68               | 7.2   | 36            | 3.3   | 104          | 5.1   | 275                   | 6.2   | 144           | 2.6   | 419          | 4.2   | 8.3               | 3.4            | 5.6           |
| Pancreas                       | 104              | 11.2  | 105           | 8.9   | 209          | 10.1  | 525                   | 12.0  | 554           | 9.7   | 1,079        | 10.8  | 12.5              | 9.6            | 10.9          |
| Lung & Bronchus                | 525              | 58.5  | 403           | 36.3  | 928          | 45.9  | 2,588                 | 60.3  | 1,949         | 35.5  | 4,537        | 46.2  | 63.3              | 39.2           | 49.5          |
| Melanoma of the Skin           | 34               | 3.7   | 20            | 1.7   | 54           | 2.6   | 175                   | 4.0   | 115           | 2.2   | 290          | 2.9   | 4.1               | 1.7            | 2.7           |
| Breast                         | 5                | 0.5   | 225           | 19.2  | 230          | 10.9  | 10                    | 0.2   | 1,115         | 20.1  | 1,125        | 11.2  | 0.3               | 22.7           | 12.7          |
| Uterine Cervix                 | ---              | ---   | 24            | 2.6   | ---          | ---   | ---                   | ---   | 87            | 1.8   | ---          | ---   | ---               | 2.4            | ---           |

**TABLE 5 (continued): Cancer Mortality**

| Site                         | NEBRASKA<br>2010 |              |               |                |              |               | NEBRASKA<br>2006-2010 |              |               |                |              |               | U.S.<br>2006-2010 |                |               |
|------------------------------|------------------|--------------|---------------|----------------|--------------|---------------|-----------------------|--------------|---------------|----------------|--------------|---------------|-------------------|----------------|---------------|
|                              | Male<br>No.      | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>No.           | Male<br>Rate | Female<br>No. | Female<br>Rate | Total<br>No. | Total<br>Rate | Male<br>Rate      | Female<br>Rate | Total<br>Rate |
| Uterine Corpus & Unspecified | ---              | ---          | 53            | 4.5            | ---          | ---           | ---                   | ---          | 265           | 4.7            | ---          | ---           | ---               | 4.3            | ---           |
| Ovary                        | ---              | ---          | 81            | 7.3            | ---          | ---           | ---                   | ---          | 423           | 7.7            | ---          | ---           | ---               | 8.1            | ---           |
| Prostate                     | 167              | 20.0         | ---           | ---            | ---          | ---           | 931                   | 22.9         | ---           | ---            | ---          | ---           | 23.0              | ---            | ---           |
| Kidney & Renal Pelvis        | 58               | 6.2          | 28            | 2.3            | 86           | 4.1           | 262                   | 6.0          | 161           | 2.8            | 423          | 4.3           | 5.8               | 2.6            | 4.0           |
| Urinary Bladder              | 61               | 7.2          | 29            | 2.4            | 90           | 4.3           | 284                   | 6.9          | 130           | 2.1            | 414          | 4.0           | 7.7               | 2.2            | 4.4           |
| Brain & Other Nervous System | 45               | 5.0          | 43            | 3.8            | 88           | 4.4           | 255                   | 5.8          | 218           | 4.1            | 473          | 5.0           | 5.2               | 3.5            | 4.3           |
| Thyroid                      | 5                | 0.5          | 5             | 0.5            | 10           | 0.5           | 22                    | 0.5          | 21            | 0.4            | 43           | 0.4           | 0.5               | 0.5            | 0.5           |
| Hodgkin Lymphoma             | 7                | 0.9          | 1             | 0.1            | 8            | 0.5           | 29                    | 0.7          | 13            | 0.2            | 42           | 0.4           | 0.5               | 0.3            | 0.4           |
| Non-Hodgkin Lymphoma         | 65               | 7.2          | 78            | 6.4            | 143          | 6.9           | 358                   | 8.4          | 341           | 5.7            | 699          | 6.9           | 8.2               | 5.1            | 6.4           |
| Myeloma                      | 32               | 3.6          | 38            | 3.1            | 70           | 3.3           | 174                   | 4.1          | 163           | 2.8            | 337          | 3.3           | 4.3               | 2.7            | 3.4           |
| Leukemia                     | 63               | 7.2          | 66            | 5.8            | 129          | 6.3           | 391                   | 9.3          | 298           | 5.1            | 689          | 6.9           | 9.5               | 5.3            | 7.1           |

Total rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

Gender-specific rates are per 100,000 male or female population and are age-adjusted to the 2000 U.S. population

**TABLE 6: Cancer Mortality**  
**Number of Deaths and Percentage Distribution, by Selected Primary Site and Age at Death**  
 Nebraska (2006-2010)

|                                | <u>0-17 Yrs.</u> |          | <u>18-44 Yrs.</u> |          | <u>45-64 Yrs.</u> |          | <u>65+ Yrs</u> |          | <u>TOTAL</u>  |          |
|--------------------------------|------------------|----------|-------------------|----------|-------------------|----------|----------------|----------|---------------|----------|
|                                | <u>Number</u>    | <u>%</u> | <u>Number</u>     | <u>%</u> | <u>Number</u>     | <u>%</u> | <u>Number</u>  | <u>%</u> | <u>Number</u> | <u>%</u> |
| All Sites                      | 47               | 0.3      | 423               | 2.5      | 4,193             | 24.6     | 12,390         | 72.7     | 17,053        | 100.0    |
| Oral Cavity & Pharynx          | 0                | 0.0      | 9                 | 4.0      | 80                | 35.2     | 138            | 60.8     | 227           | 100.0    |
| Esophagus                      | 0                | 0.0      | 6                 | 1.4      | 149               | 33.6     | 289            | 65.1     | 444           | 100.0    |
| Stomach                        | 0                | 0.0      | 9                 | 3.5      | 70                | 27.6     | 175            | 68.9     | 254           | 100.0    |
| Colon & Rectum (Colorectal)    | 0                | 0.0      | 26                | 1.4      | 404               | 22.3     | 1,383          | 76.3     | 1,813         | 100.0    |
| Liver & Intrahepatic Bile Duct | 2                | 0.5      | 12                | 2.9      | 135               | 32.2     | 270            | 64.4     | 419           | 100.0    |
| Pancreas                       | 0                | 0.0      | 5                 | 0.5      | 254               | 23.5     | 820            | 76.0     | 1,079         | 100.0    |
| Lung & Bronchus                | 1                | <0.1     | 44                | 1.0      | 1,160             | 25.6     | 3,332          | 73.4     | 4,537         | 100.0    |
| Melanoma of the Skin           | 0                | 0.0      | 27                | 9.3      | 100               | 34.5     | 163            | 56.2     | 290           | 100.0    |
| Female Breast                  | 0                | 0.0      | 55                | 4.9      | 355               | 31.6     | 715            | 63.6     | 1,125         | 100.0    |
| Uterine Cervix                 | 0                | 0.0      | 21                | 24.1     | 39                | 44.8     | 27             | 31.0     | 87            | 100.0    |
| Uterine Corpus & Unspecified   | 0                | 0.0      | 8                 | 3.0      | 59                | 22.3     | 198            | 74.7     | 265           | 100.0    |
| Ovary                          | 0                | 0.0      | 12                | 2.8      | 135               | 31.9     | 276            | 65.2     | 423           | 100.0    |
| Prostate                       | 0                | 0.0      | 1                 | 0.1      | 75                | 8.1      | 855            | 91.8     | 931           | 100.0    |
| Kidney & Renal Pelvis          | 2                | 0.5      | 9                 | 2.1      | 119               | 28.1     | 293            | 69.3     | 423           | 100.0    |
| Urinary Bladder                | 0                | 0.0      | 1                 | 0.2      | 49                | 11.8     | 364            | 87.9     | 414           | 100.0    |
| Brain & Other Nervous System   | 16               | 3.4      | 56                | 11.8     | 163               | 34.5     | 238            | 50.3     | 473           | 100.0    |
| Thyroid                        | 0                | 0.0      | 1                 | 2.3      | 12                | 27.9     | 30             | 69.8     | 43            | 100.0    |
| Hodgkin Lymphoma               | 0                | 0.0      | 3                 | 7.1      | 15                | 35.7     | 24             | 57.1     | 42            | 100.0    |
| Non-Hodgkin Lymphoma           | 0                | 0.0      | 14                | 2.0      | 128               | 18.3     | 557            | 79.7     | 699           | 100.0    |
| Myeloma                        | 0                | 0.0      | 2                 | 0.6      | 73                | 21.7     | 262            | 77.7     | 337           | 100.0    |
| Leukemia                       | 12               | 1.7      | 35                | 5.1      | 127               | 18.4     | 515            | 74.7     | 689           | 100.0    |

NOTE: Due to rounding, percentages may not sum to 100.0.



**TABLE 7: Cancer Mortality**  
**Number of Deaths and Rates, All Sites and Top 10 Primary Sites, by Race and Ethnicity**  
 Nebraska (2001-2010)

| Rank | White                 |        |       | African-American |        |       | Native American       |        |       | Asian/Pacific Islander |        |       | Hispanic              |        |       |
|------|-----------------------|--------|-------|------------------|--------|-------|-----------------------|--------|-------|------------------------|--------|-------|-----------------------|--------|-------|
|      | Site                  | Number | Rate  | Site             | Number | Rate  | Site                  | Number | Rate  | Site                   | Number | Rate  | Site                  | Number | Rate  |
|      | All Sites             | 32,377 | 173.9 | All Sites        | 1,100  | 244.1 | All Sites             | 150    | 192.5 | All Sites              | 155    | 111.3 | All Sites             | 443    | 114.5 |
| 1    | Lung & Bronchus       | 8,611  | 47.2  | Lung & Bronchus  | 316    | 71.2  | Lung & Bronchus       | 46     | 66.7  | Lung & Bronchus        | 42     | 30.4  | Lung & Bronchus       | 73     | 21.3  |
| 2    | Colon & Rectum        | 3,550  | 18.6  | Colon & Rectum   | 126    | 30.5  | Colon & Rectum        | 12     | 11.5  | Liver                  | 21     | 10.6  | Colon & Rectum        | 36     | 10.0  |
| 3    | Female Breast         | 2,259  | 21.8  | Female Breast    | 92     | 33.0  | Female Breast         | 11     | 21.7  | Colon & Rectum         | 16     | 12.7  | Female Breast         | 34     | 15.5  |
| 4    | Pancreas              | 1,864  | 10.0  | Prostate         | 65     | 44.1  | Ovary                 | 9      | 18.1  | Pancreas               | 12     | 9.6   | Liver                 | 33     | 9.7   |
| 5    | Prostate              | 1,791  | 23.8  | Pancreas         | 64     | 14.5  | Kidney & Renal Pelvis | 9      | 10.4  | Female Breast          | 9      | 9.1   | Stomach               | 25     | 6.1   |
| 6    | Leukemia              | 1,364  | 7.3   | Liver            | 47     | 8.3   | Pancreas              | 6      | 6.2   | Non-Hodgkin Lymphoma   | 9      | 8.0   | Prostate              | 22     | 19.3  |
| 7    | Non-Hodgkin Lymphoma  | 1,363  | 7.2   | Myeloma          | 34     | 8.3   | Esophagus             | 5      | *     | Stomach                | 6      | 2.5   | Pancreas              | 21     | 4.2   |
| 8    | Brain                 | 889    | 5.0   | Leukemia         | 29     | 6.1   | Liver                 | 5      | *     | Kidney & Renal Pelvis  | 5      | *     | Leukemia              | 21     | 6.5   |
| 9    | Ovary                 | 847    | 8.3   | Esophagus        | 27     | 5.5   | Myeloma               | 5      | *     | Brain                  | 5      | *     | Kidney & Renal Pelvis | 19     | 3.9   |
| 10   | Kidney & Renal Pelvis | 830    | 4.5   | Stomach          | 26     | 5.5   |                       |        |       |                        |        |       | Non-Hodgkin Lymphoma  | 16     | 4.3   |

Rates are per 100,000 population, excluding gender-specific sites (prostate, female breast, ovary), which are per 100,000 male or female population. All rates are age-adjusted to the 2000 U.S. population.

\*Rate is not shown if based on five or fewer deaths

**TABLE 8: Cancer (All Sites) Mortality**  
**Number of Deaths and Rates, by County of Residence**  
 Nebraska & U.S. (2010 and 2006-2010)

|               | <u>2010</u>     |             | <u>2006-2010</u> |             |
|---------------|-----------------|-------------|------------------|-------------|
|               | <u># Deaths</u> | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 574,743         | 172.8       | 2,830,603        | 176.7       |
| NEBRASKA      | 3,437           | 166.5       | 17,053           | 170.6       |
| <u>COUNTY</u> |                 |             |                  |             |
| ADAMS         | 55              | 141.9       | 315              | 163.0       |
| ANTELOPE      | 19              | 167.7       | 81               | 147.7       |
| ARTHUR        | *               | *           | 5                | ***         |
| BANNER        | *               | *           | 7                | 144.4       |
| BLAINE        | *               | *           | 7                | 185.3       |
| BOONE         | 12              | 113.3       | 88               | 187.5       |
| BOX BUTTE     | 21              | 142.3       | 109              | 149.3       |
| BOYD          | *               | *           | 25               | 115.0▽      |
| BROWN         | 7               | 120.9       | 44               | 149.2       |
| BUFFALO       | 57              | 126.1▽      | 406              | 181.4       |
| BURT          | 20              | 189.4       | 119              | 197.9       |
| BUTLER        | 18              | 131.9       | 81               | 128.7▼      |
| CASS          | 73              | 239.4△      | 289              | 200.2△      |
| CEDAR         | 25              | 152.4       | 97               | 131.9▼      |
| CHASE         | 8               | 119.6       | 45               | 134.2       |
| CHERRY        | 12              | 126.6       | 72               | 159.2       |
| CHEYENNE      | 25              | 188.0       | 109              | 162.5       |
| CLAY          | 18              | 184.6       | 99               | 206.1       |
| COLFAX        | 20              | 167.1       | 106              | 171.7       |
| CUMING        | 15              | 107.5       | 104              | 144.8       |
| CUSTER        | 28              | 150.4       | 150              | 163.7       |
| DAKOTA        | 37              | 190.1       | 166              | 166.4       |
| DAWES         | 27              | 220.7       | 107              | 185.7       |
| DAWSON        | 36              | 132.9       | 201              | 149.4       |
| DEUEL         | *               | *           | 23               | 140.4       |
| DIXON         | 21              | 220.0       | 76               | 178.2       |
| DODGE         | 96              | 186.5       | 478              | 184.5       |
| DOUGLAS       | 865             | 181.5       | 4,257            | 184.4▲      |
| DUNDY         | *               | *           | 32               | 166.1       |
| FILLMORE      | 15              | 126.6       | 94               | 171.7       |
| FRANKLIN      | 7               | 122.0       | 32               | 102.3▼      |
| FRONTIER      | 6               | 152.2       | 41               | 204.2       |
| FURNAS        | 11              | 122.8       | 65               | 147.0       |
| GAGE          | 67              | 201.6       | 317              | 185.3       |
| GARDEN        | 7               | 152.5       | 27               | 147.3       |
| GARFIELD      | 8               | 208.5       | 24               | 118.1▽      |
| GOSPER        | 9               | 277.4       | 25               | 161.0       |
| GRANT         | *               | *           | 7                | 190.1       |
| GREELEY       | 8               | 170.6       | 37               | 159.8       |
| HALL          | 112             | 167.9       | 554              | 174.0       |
| HAMILTON      | 19              | 161.8       | 88               | 144.6       |
| HARLAN        | 14              | 210.3       | 67               | 208.6       |
| HAYES         | 0               | 0.0         | 12               | 177.8       |
| HITCHCOCK     | 11              | 217.2       | 43               | 167.1       |
| HOLT          | 28              | 169.6       | 139              | 165.2       |
| HOOKER        | *               | *           | 14               | 169.4       |
| HOWARD        | 14              | 151.6       | 86               | 186.8       |
| JEFFERSON     | 17              | 142.6       | 111              | 159.2       |

**TABLE 8 (continued): Cancer Mortality**

| <u>COUNTY</u> | <u>2010</u>     |             | <u>2006-2010</u> |             |
|---------------|-----------------|-------------|------------------|-------------|
|               | <u># Deaths</u> | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| JOHNSON       | 10              | 125.8       | 55               | 139.6       |
| KEARNEY       | 16              | 160.1       | 59               | 124.5▼      |
| KEITH         | 25              | 189.9       | 115              | 180.2       |
| KEYA PAHA     | *               | **          | 13               | 163.5       |
| KIMBALL       | 10              | 180.1       | 60               | 207.5       |
| KNOX          | 28              | 203.7       | 138              | 190.6       |
| LANCASTER     | 421             | 155.5       | 2,050            | 159.1▽      |
| LINCOLN       | 71              | 154.8       | 374              | 167.6       |
| LOGAN         | 0               | 0.0         | 4                | ***         |
| LOUP          | 0               | 0.0         | 6                | 118.3       |
| McPHERSON     | *               | *           | 8                | 202.4       |
| MADISON       | 78              | 182.7       | 373              | 183.7       |
| MERRICK       | 15              | 144.3       | 90               | 167.4       |
| MORRILL       | 6               | 91.8        | 42               | 115.6▼      |
| NANCE         | 11              | 184.7       | 52               | 178.3       |
| NEMAHA        | 15              | 145.5       | 84               | 167.6       |
| NUCKOLLS      | 13              | 147.8       | 71               | 147.7       |
| OTOE          | 33              | 146.0       | 182              | 161.1       |
| PAWNEE        | 6               | 108.3       | 44               | 164.5       |
| PERKINS       | 8               | 177.5       | 40               | 158.9       |
| PHELPS        | 20              | 135.5       | 100              | 144.4       |
| PIERCE        | 21              | 227.5       | 90               | 185.1       |
| PLATTE        | 54              | 136.4       | 280              | 152.2       |
| POLK          | 16              | 169.4       | 62               | 144.7       |
| RED WILLOW    | 32              | 186.1       | 150              | 181.2       |
| RICHARDSON    | 29              | 204.2       | 143              | 190.1       |
| ROCK          | *               | *           | 18               | 127.6       |
| SALINE        | 28              | 154.1       | 146              | 169.5       |
| SARPY         | 211             | 175.5       | 942              | 173.8       |
| SAUNDERS      | 61              | 232.1△      | 262              | 207.6▲      |
| SCOTTS BLUFF  | 89              | 179.0       | 395              | 161.6       |
| SEWARD        | 38              | 179.8       | 187              | 182.2       |
| SHERIDAN      | 13              | 145.8       | 72               | 150.4       |
| SHERMAN       | 14              | 238.0       | 61               | 235.0△      |
| SIOUX         | *               | *           | 12               | 114.6       |
| STANTON       | 13              | 193.7       | 51               | 144.4       |
| THAYER        | 14              | 116.8       | 86               | 153.6       |
| THOMAS        | 0               | 0.0         | **               | ***         |
| THURSTON      | 10              | 140.8       | 72               | 212.6       |
| VALLEY        | 13              | 169.4       | 72               | 183.8       |
| WASHINGTON    | 39              | 163.9       | 203              | 175.9       |
| WAYNE         | 14              | 144.1       | 70               | 132.6       |
| WEBSTER       | 15              | 202.5       | 60               | 177.0       |
| WHEELER       | *               | *           | 8                | 142.5       |
| YORK          | 32              | 155.3       | 169              | 167.3       |

\*Number and rate for single years are not shown if based on five or fewer deaths

\*\*Number for combined years is not shown if based on fewer than three deaths

\*\*\*Rate for combined years is not shown if based on five or fewer deaths

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

▲county rate is significantly higher than the state rate (99% confidence level)

## INCIDENCE AND MORTALITY FOR SELECTED PRIMARY SITES

### Lung and Bronchus

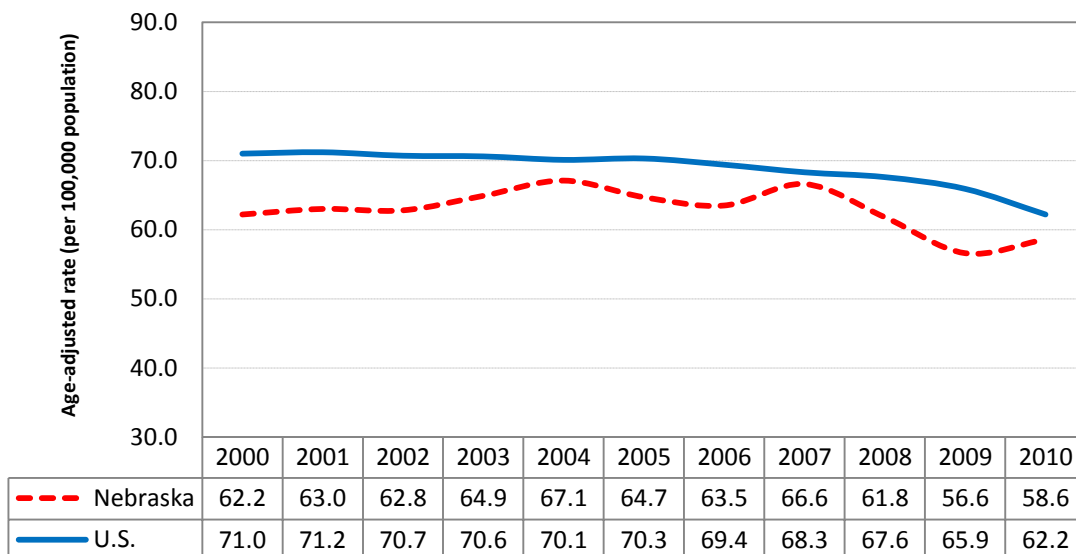
Although lung cancer was only the third most frequently diagnosed cancer among Nebraska residents in 2010, it was the year's leading cause of cancer mortality, accounting for more than 25% of the state's cancer deaths. During the past five years (2006-2010), lung cancer has averaged about 1,200 diagnoses and 900 deaths in Nebraska per year. Although lung cancer is more likely to strike men than women, there has been a 30% drop in the rate of lung cancer deaths among Nebraska men since 1990, but a slight increase in the rate for Nebraska women. The large number of lung cancer deaths is due to the small number of cases that are detected at an early stage: as a result, the 5-year survival rate for people who are diagnosed with lung cancer is less than 20%.

Cigarette smoking is the major risk factor for lung cancer and causes about 85% of lung cancer deaths. People who smoke two or more packs of cigarettes per day are 15 to 25 times more likely to die from lung cancer than non-smokers. Quitting smoking reduces the risk of lung cancer, although it takes 10-15 years for an ex-smoker's risk to drop to the level of a lifelong non-smoker. People who do not smoke but who breathe the smoke of others may also be at a higher risk for lung cancer. Exposure to radon (a radioactive gas) and asbestos are lung cancer risk factors for both smokers and non-smokers, although people who smoke are at far greater risk than those who do not.

*Incidence and mortality statistics by county of residence for cancers of the lung and bronchus are presented in Appendix I (Table 9).*

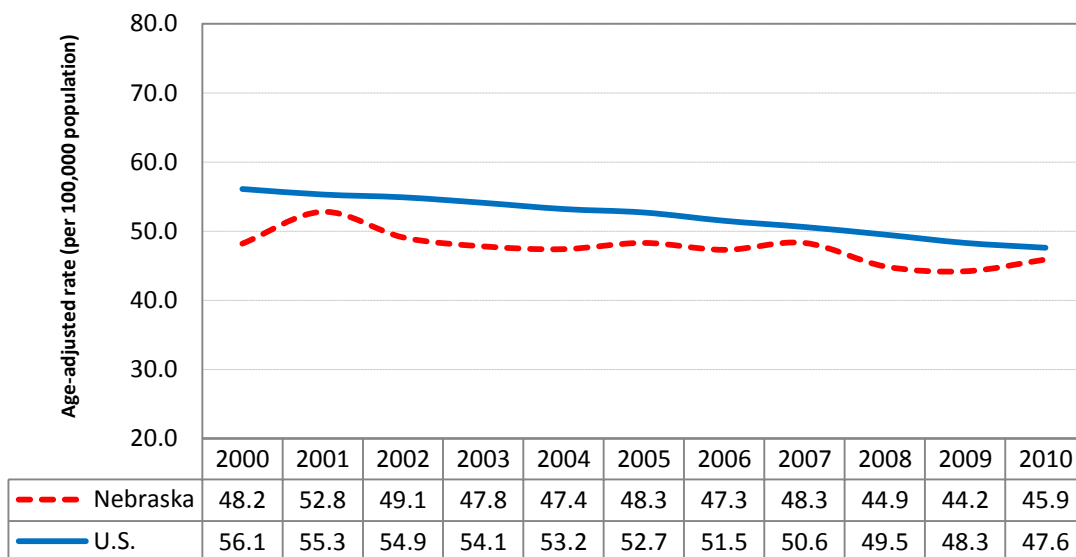
### Lung and Bronchus Cancer

Incidence Rates, Nebraska & U.S. (2000-2010)



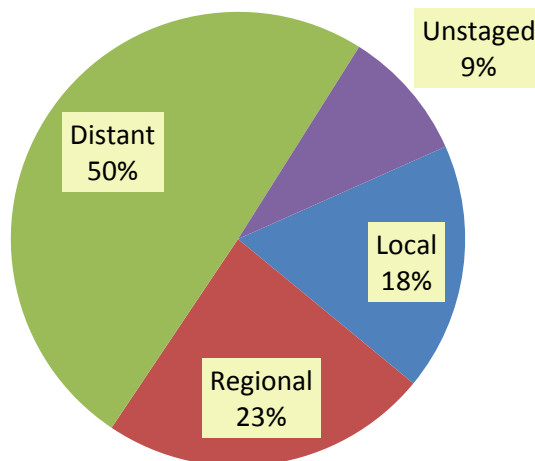
## Lung and Bronchus Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Lung and Bronchus Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



## Breast (Female only)

Breast cancer is the most common type of cancer among women and the second most frequent cause of female cancer deaths. Between 2006 and 2010, 6,257 Nebraska women were diagnosed with invasive breast cancer (and another 1,415 were diagnosed with in situ breast cancer) and 1,115 women died from breast cancer. Since 1990, the rate of breast cancer deaths in Nebraska and the U.S. has declined significantly. Recent declines in the rate of breast cancer diagnoses have been attributed to the decreasing use of post-menopausal hormone replacement therapy.

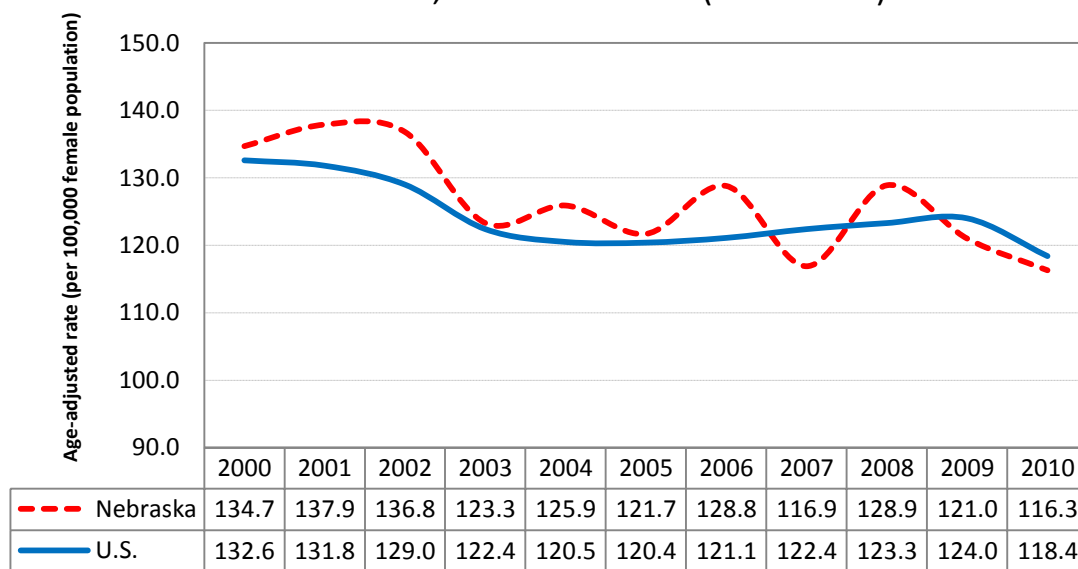
Age is an important risk factor for breast cancer, with 80% of all cases occurring among women age 50 and older. Other risk factors include genetic mutations, a personal or family history of breast cancer, some forms of benign breast disease, early menstruation, late menopause, never having children or having a first child after age 30, and for post-menopausal women, obesity and long-term hormone replacement therapy.

Screening for breast cancer is known to save lives, although opinions vary on how and when to screen. The American Cancer Society (ACS) recommends that women aged 40 and older have an annual mammogram, but the U.S. Preventive Services Task Force (USPSTF) recommends mammography only for women aged 50-74 on an every other year schedule. The ACS guidelines also include a clinical breast exam every three years for women in their 20s and 30s and every year for women 40 and older, while the USPSTF does not include clinical breast exams in its recommendations. For women 30 years and older who have an increased risk of breast cancer, the ACS recommends annual magnetic resonance imaging (MRI) as an additional screening test. Breast self-exam is also another preventive method for women beginning in their 20s.

*Incidence and mortality statistics by county of residence for cancer of the female breast are presented in Appendix II (Table 10).*

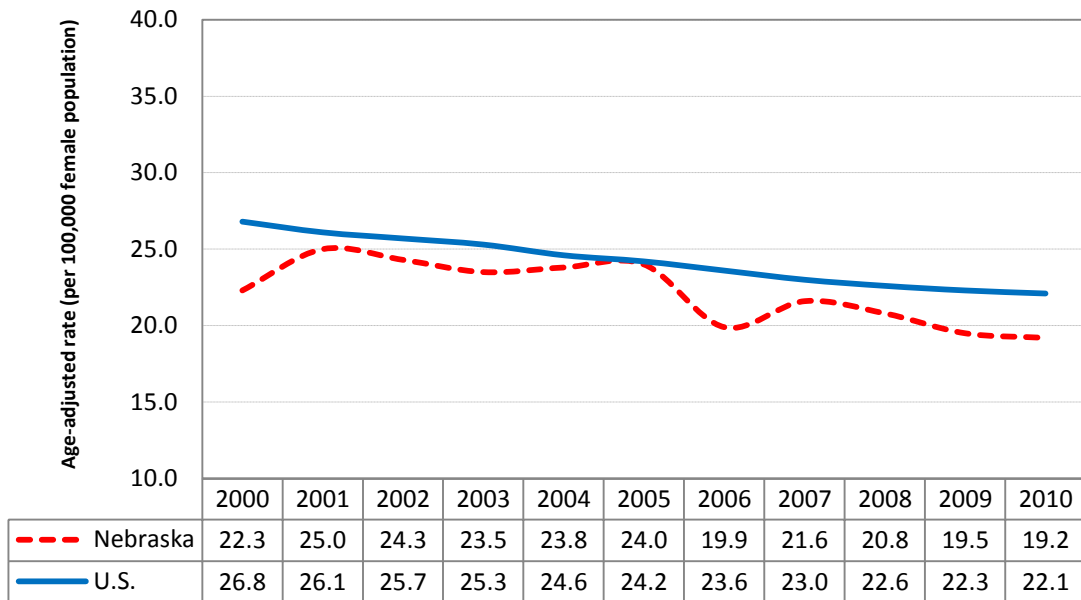
## Female Breast Cancer

Incidence Rates, Nebraska & U.S. (2000-2010)



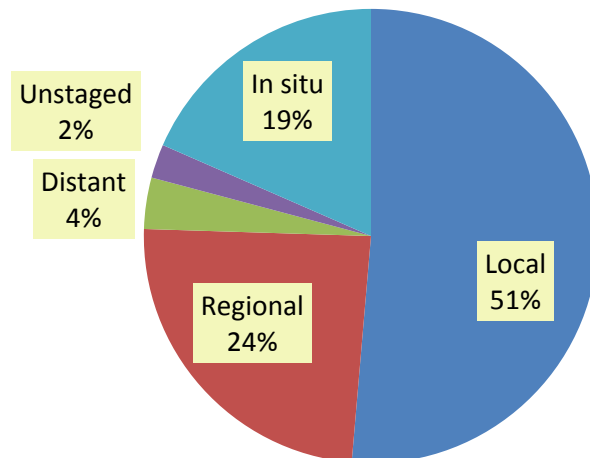
## Female Breast Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Female Breast Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



## Colon and Rectum (Colorectal)

In 2010, colorectal cancer was the fourth most frequently diagnosed cancer among Nebraska residents, accounting for 905 new cases. It was also the second leading cause of cancer mortality in the state, accounting for 358 deaths.

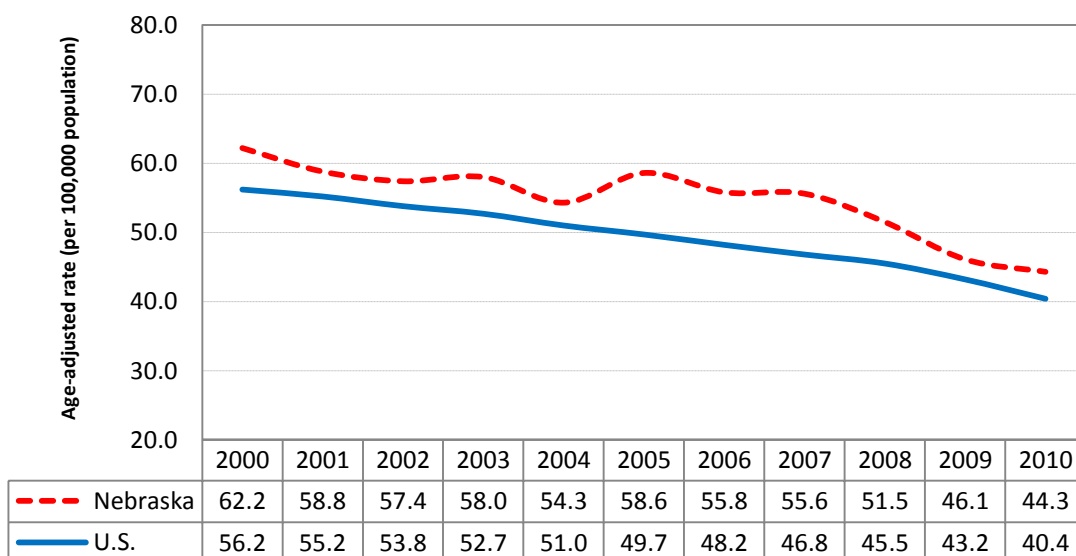
The risk of developing colorectal cancer increases with age. More than two-thirds of all colorectal cancer cases that occurred in Nebraska during 2006-2010 were 65 or older at diagnosis. Other risk factors include a personal or family history of colorectal cancer or polyps, a personal history of chronic inflammatory bowel disease, and certain hereditary colorectal cancer syndromes. Modifiable risk factors include physical inactivity, obesity, smoking, a high-fat diet (especially fat from animal sources), and heavy alcohol use.

Screening for asymptomatic polyps and tumors is known to prevent new colorectal cancer cases and deaths. The USPSTF recommends that people between the ages of 50 and 75 follow one of these schedules: 1) an annual high-sensitivity fecal occult blood test (FOBT), 2) sigmoidoscopy every 5 years combined with a high-sensitivity FOBT every 3 years, or 3) colonoscopy every 10 years. People at increased risk (i.e., a personal or family history of colorectal cancer or polyps, a personal history of chronic inflammatory bowel disease, or a family history of hereditary colorectal cancer syndromes) may be advised to begin screening before age 50 and/or be screened more often. Other screening tests that are included in the most recent ACS guidelines include double contrast barium enema (every 5 years), virtual colonoscopy (every 5 years), and yearly fecal immunochemical test (FIT) (every year).

*Incidence and mortality statistics by county of residence for cancers of the colon and rectum are presented in Appendix III (Table 11).*

## Colon and Rectum (Colorectal) Cancer

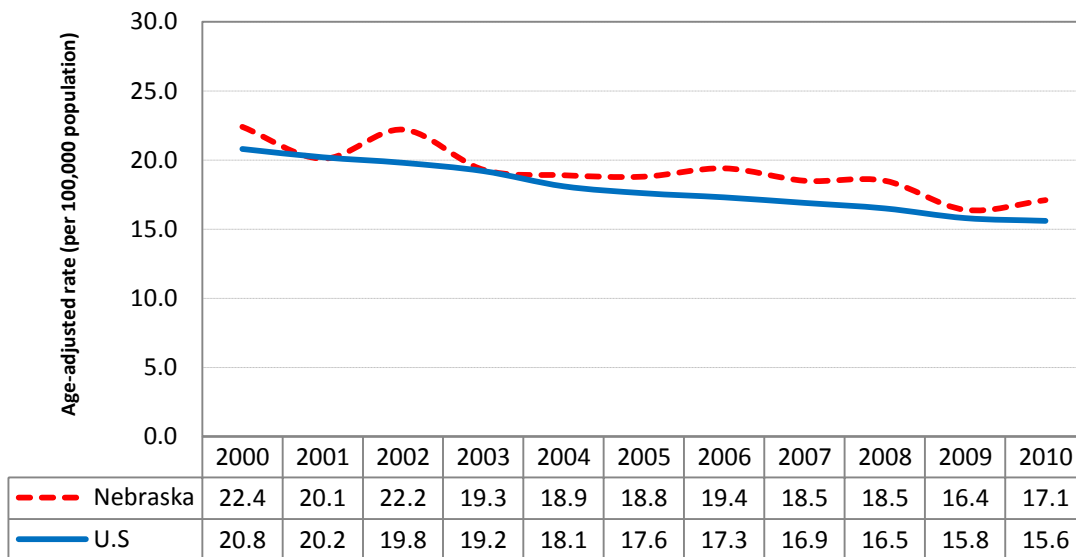
Incidence Rates, Nebraska & U.S. (2000-2010)





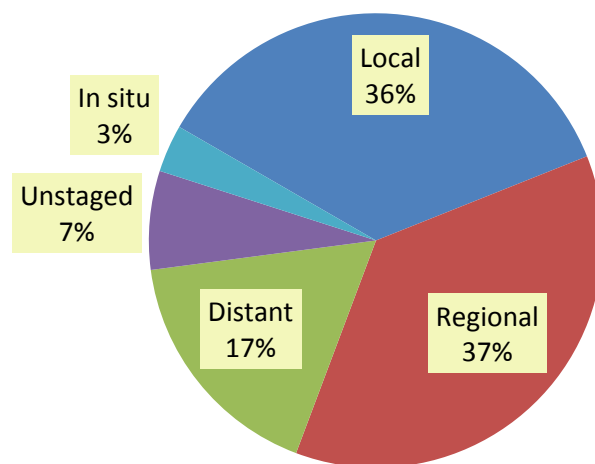
## Colon and Rectum (Colorectal) Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Colon and Rectum (Colorectal) Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



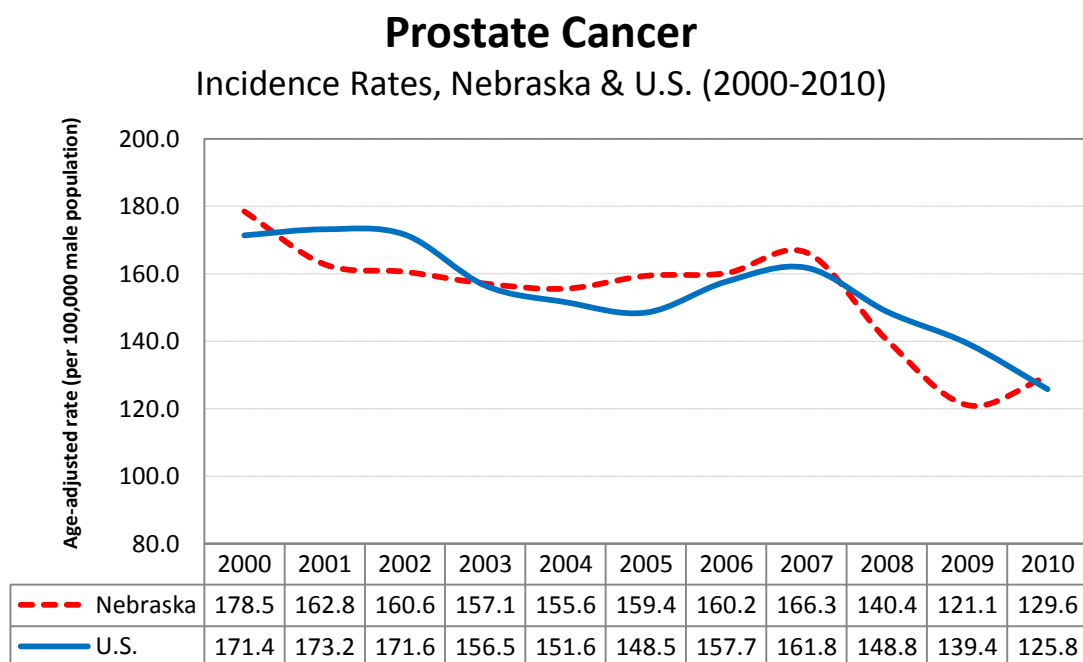
## Prostate

With 1,216 diagnoses in 2010, prostate cancer was the most common cancer among Nebraska men, accounting for just over 25% of all new cancers. During the past five years (2006-2010), it has also been the second leading cause of cancer deaths among Nebraska men, accounting for 931 deaths. Since the mid-1990s, prostate cancer death rates have declined substantially, both in Nebraska and throughout the United States.

At present, little is known about what causes prostate cancer. However, it is known that an individual's risk increases with age (over 60% of Nebraska men diagnosed with prostate cancer during 2006-2010 were 65 or older) and is significantly greater among African-Americans. During the past decade (2001-2010), the incidence of prostate cancer among African-American men in Nebraska has been 40% higher than among whites. Men with a close relative (father, brother, or son) who have had prostate cancer, especially at a younger age, are also at increased risk.

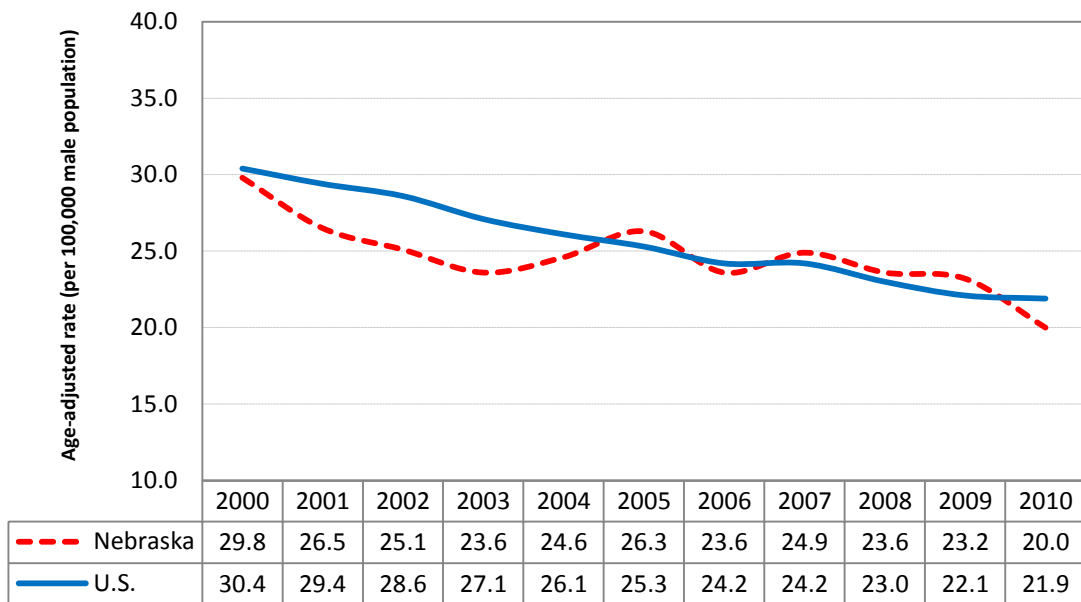
Current ACS guidelines for prostate cancer screening recommend that health care providers begin to discuss the benefits and limitations of screening and treatment with men who are 50 years old, have a life expectancy of at least 10 years, and have an average risk of developing prostate cancer. This discussion should begin at age 45 for men at high risk (African-Americans and men with a father, brother, or son diagnosed with prostate cancer before age 65) and at age 40 for men of higher risk (men with several first-degree relatives diagnosed before age 65). For men who choose to be screened, the ACS recommends a prostate-specific antigen (PSA) test every year (less frequently depending on results) and an optional digital rectal exam.

*Incidence and mortality statistics by county of residence for cancer of the prostate are presented in Appendix IV (Table 12).*



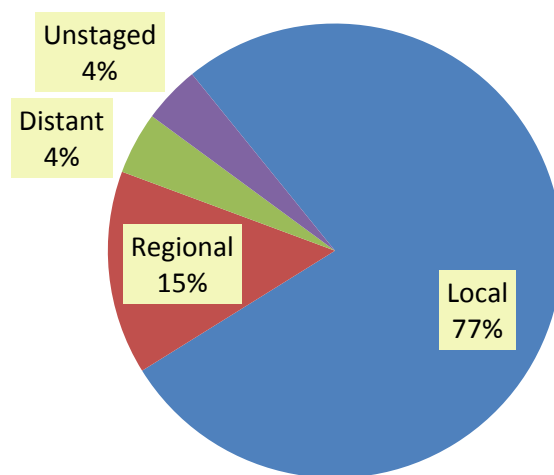
## Prostate Cancer

### Mortality Rates, Nebraska & U.S. (2000-2010)



## Prostate Cancer

### Percentage of Cases, by Stage of Disease at Diagnosis Nebraska, 2006-2010

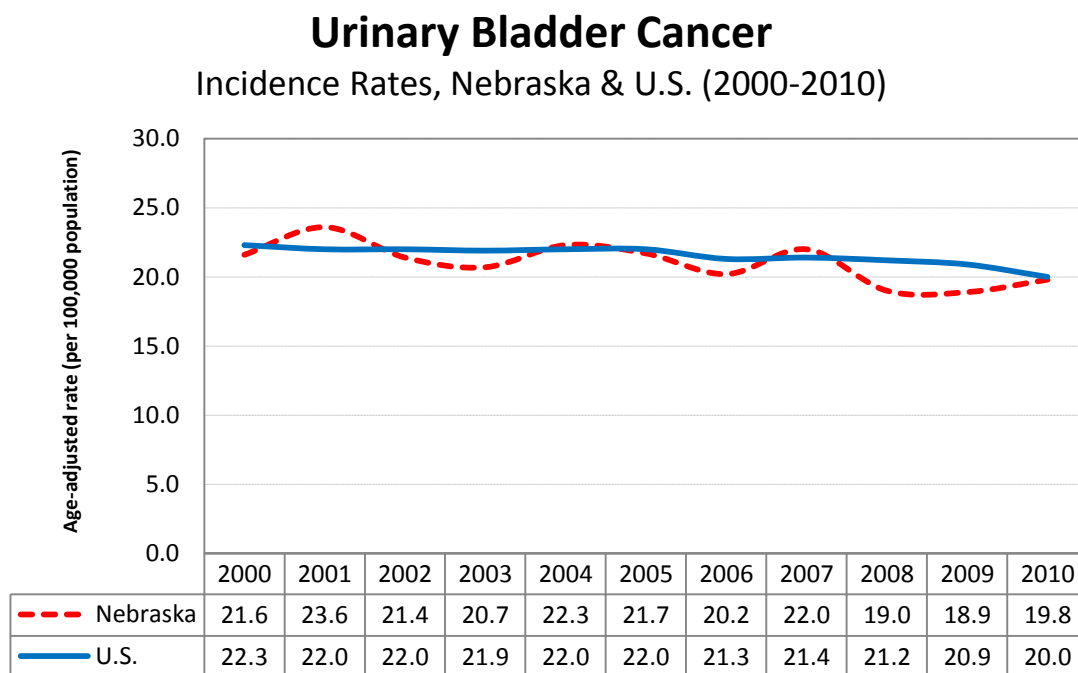


## Urinary Bladder

Between 2006 and 2010, 1,964 Nebraska residents were diagnosed with bladder cancer. Bladder cancer occurs much more frequently among men than women (by about a 3-to-1 ratio), and it now ranks as the fourth most common site of cancer diagnoses among Nebraska men. However, deaths from bladder cancer occur far less often (414 Nebraska residents died from it during 2006-2010), which is the result of a high percentage of early-stage diagnoses and the existence of effective treatments. Survival prospects have improved considerably in recent decades, the most current national data show that the 5-year survival rate for all bladder cancer patients to be nearly 80%.

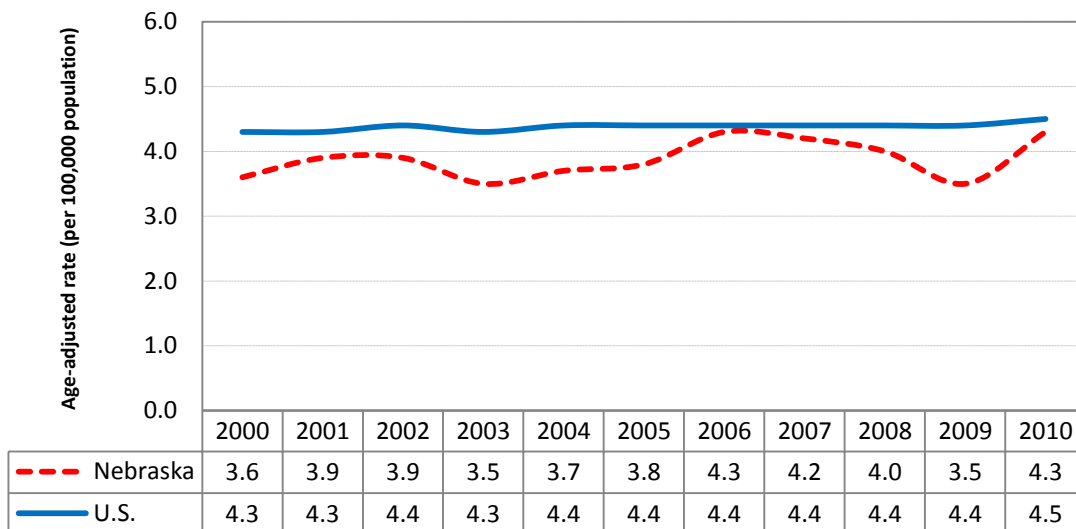
Cigarette smoking is the most important known risk factor for bladder cancer. Smokers develop bladder cancer two to three times more often than non-smokers, and about one-third of all cases are attributable to smoking. Risk factors also include occupational exposures to certain chemicals used to make dyes (benzidine and beta-naphthylamine), as well as working in the manufacture of rubber and leather. Like most cancers, the risk of bladder cancer increases with age: more than 75% of the cases that occurred in Nebraska during 2006-2010 were at least 65 years old when diagnosed.

*Incidence and mortality statistics by county of residence for cancer of the urinary bladder are presented in Appendix V (Table 13).*



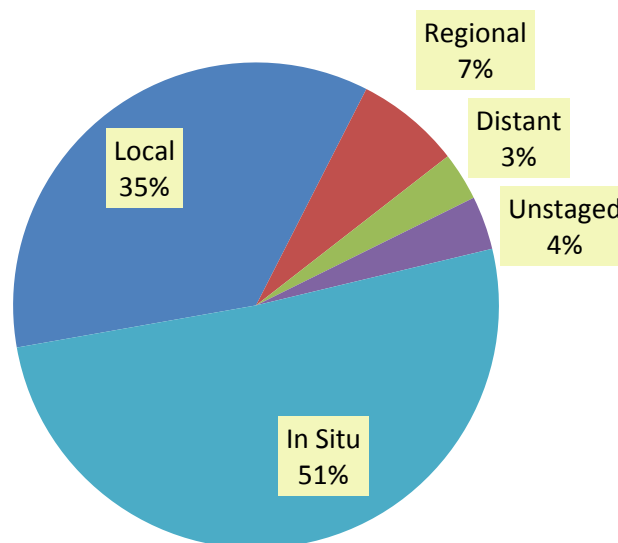
## Urinary Bladder Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Urinary Bladder Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010

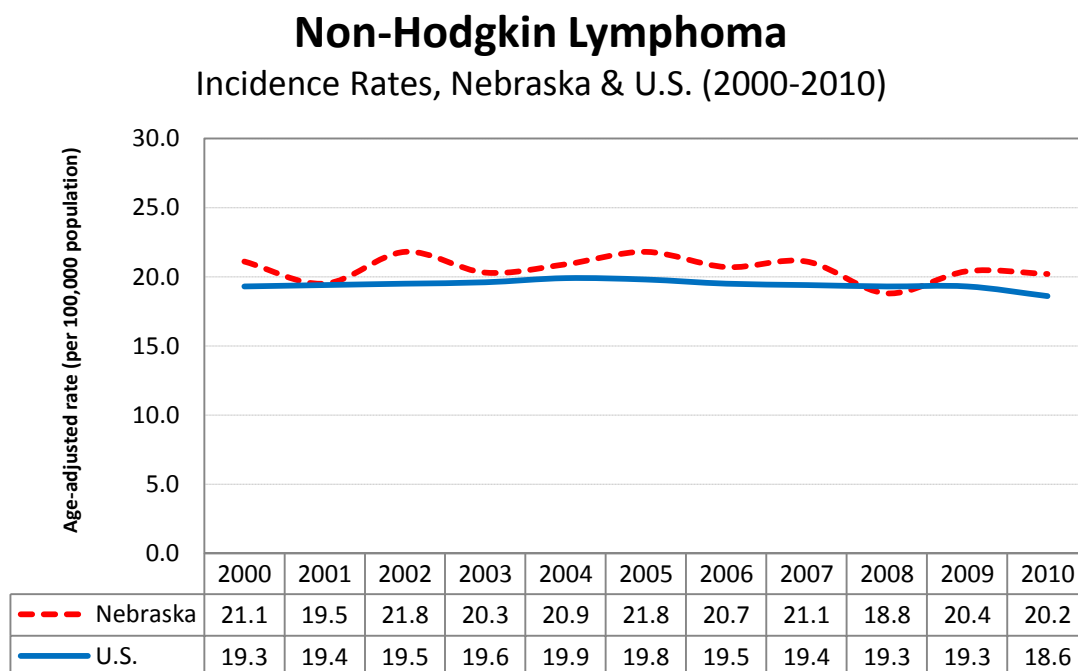


## Non-Hodgkin Lymphoma

Lymphomas are cancers that affect the white blood cells of the immune system, and are usually classified as either Hodgkin or Non-Hodgkin lymphoma. Non-Hodgkin lymphoma is by far the more common disorder of the two, accounting for 1,963 diagnoses and 699 deaths among Nebraska residents between 2006 and 2010 (for Hodgkin lymphoma, the comparable figures are 268 diagnoses and 42 deaths). National statistics indicate that the incidence rate for Non-Hodgkin lymphoma has increased by about 80% since the mid-1970s, and some of this increase is related to the appearance of AIDS. However, both state and national data show that Non-Hodgkin lymphoma deaths have been increasing since at least 1950, which indicates that factors other than AIDS are also responsible.

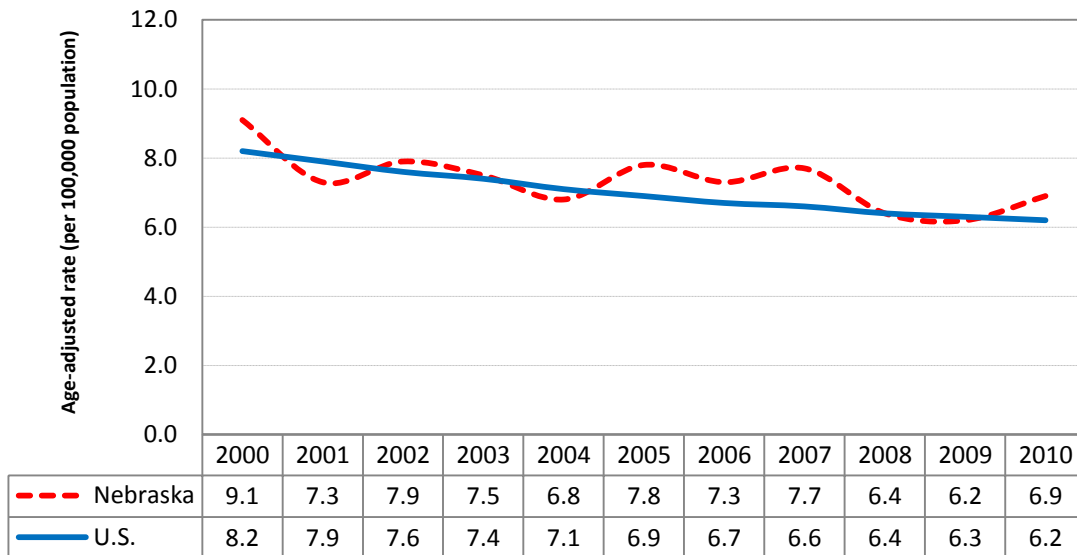
The causes of Non-Hodgkin lymphoma remain unknown, although there is evidence that viral exposures and reduced immune function are associated with the disease. People whose immune systems have been suppressed by drugs, particularly those who have received an organ transplant, are at high risk of Non-Hodgkin lymphoma, and it also occurs more frequently among people with congenital and acquired immunologic disorders, including AIDS. The increased incidence of the disease among people with congenital disorders of the immune system suggests that hereditary factors may increase risk. Some studies have found that occupational exposure to certain herbicides is a risk factor as well.

*Incidence and mortality statistics by county of residence for Non-Hodgkin lymphoma are presented in Appendix VI (Table 14).*



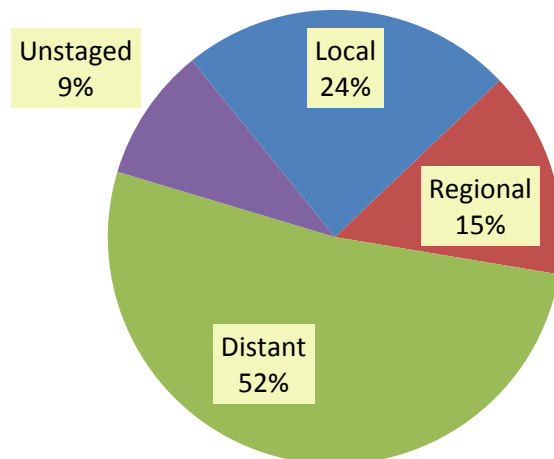
## Non-Hodgkin Lymphoma

Mortality Rates, Nebraska & U.S. (2000-2010)



## Non-Hodgkin Lymphoma

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010

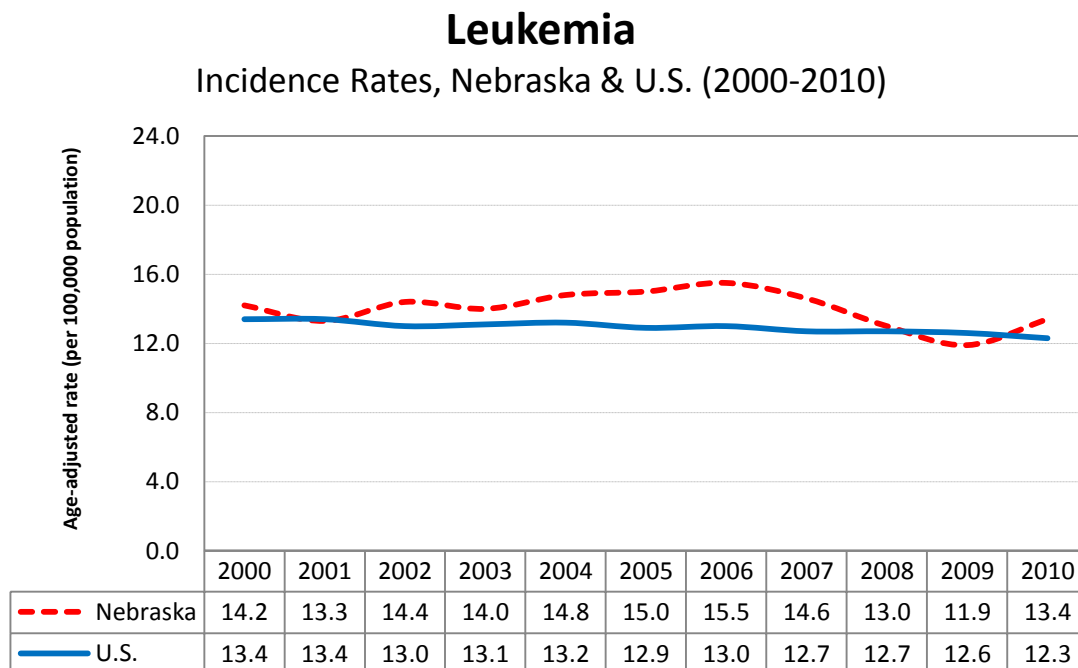


## Leukemia

Between 2006 and 2010, leukemia accounted for 1,339 diagnoses and 689 deaths among Nebraska residents. Although leukemia is one of the most common types of cancer diagnosed among children and adolescents, nearly 60% of the leukemia cases that occurred in Nebraska between 2006 and 2010 were 65 years of age or older at diagnosis. There are many different types of leukemia: acute lymphocytic leukemia is the most frequently diagnosed among children, while acute myeloid and chronic lymphocytic are the most common types among adults. Survival rates vary widely by type: overall, about half of all leukemia patients remain alive at least five years after diagnosis.

The major causes of most types of leukemia are unknown. Nevertheless, several risk factors have been identified, and include genetic abnormalities (such as Down's syndrome), exposure to ionizing radiation, and workplace exposure to benzene and other related solvents. Adult T-cell leukemia is strongly associated with infection by a retrovirus, the human T-cell lymphotropic virus, type I (HTLV-I). Cigarette smoking is a risk factor for acute myeloid leukemia, while people who have a family history of chronic lymphocytic leukemia carry an increased risk of the disease themselves.

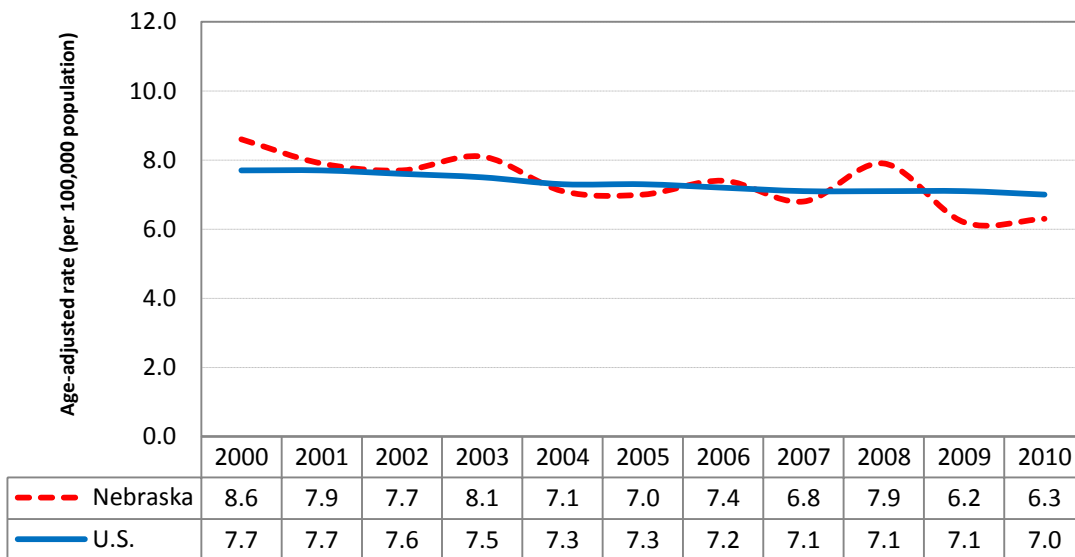
*Incidence and mortality statistics by county of residence for leukemia are presented in Appendix VII (Table 15).*





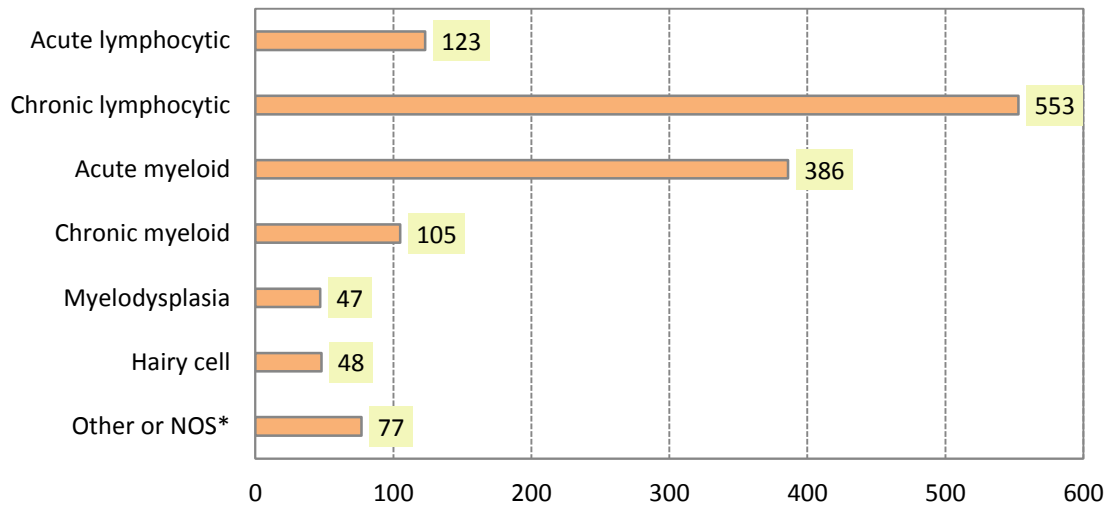
## Leukemia

### Mortality Rates, Nebraska & U.S. (2000-2010)



## Leukemia

### Number of Cases by Histologic Type, Nebraska, 2006-2010



\* includes plasma cell leukemia (8 cases); mast cell leukemia (1 case); acute biphenotypic leukemia (1 case); aggressive NK-cell leukemia (1 case); hypereosinophilic syndrome (1 case); acute leukemia, NOS (23 cases); lymphoid leukemia, NOS (1 case); myeloid leukemia, NOS (18 cases); leukemia, NOS (23 cases)

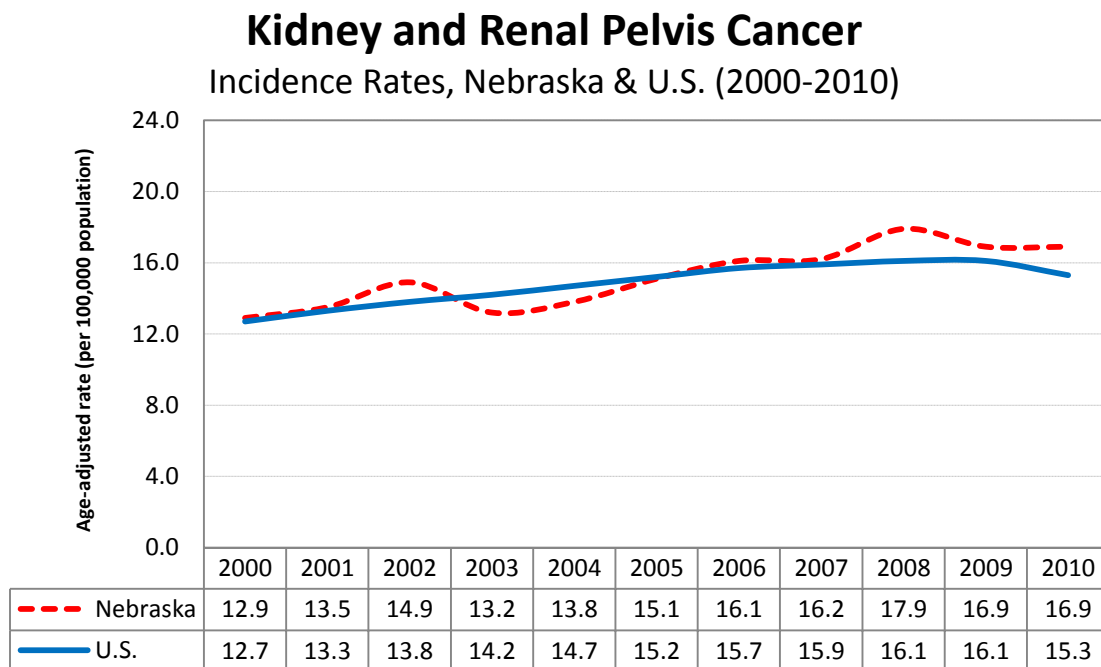
Abbreviation: NOS, not otherwise specified

## Kidney and Renal Pelvis

Cancers of the kidney and renal pelvis accounted for 1,628 diagnoses in Nebraska between 2006 and 2010, and also accounted for 423 deaths in Nebraska during the same years. State and national trends since 1990 show a significant increase in the rate of diagnosis of these cancers, but little change in the mortality rate. The chances of survival for people with kidney cancer are relatively high, with the most current national statistics showing that the 5-year survival rate for cancers of the kidney and renal pelvis is now over 70%.

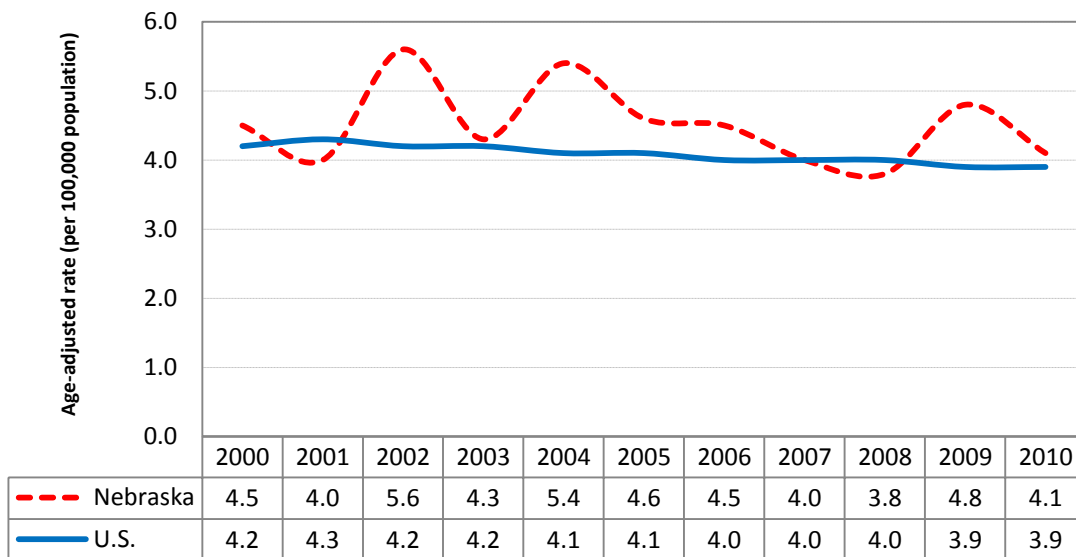
Preventable risk factors for cancer of the kidney include cigarette smoking and obesity. Current estimates indicate that cigarette smoking is responsible for about one-third of all kidney cancer deaths. Kidney cancer is more likely to strike at younger ages than most other types; in Nebraska, almost half (49.9%) of the cases that were diagnosed during 2006-2010 were under the age of 65. Other non-preventable risk factors for cancer of the kidney include a family history of kidney cancer and high blood pressure. However, since people with high blood pressure are often treated with prescription drugs, it is unclear whether their increased risk is related to their high blood pressure or the medication. Nevertheless, people who need medication(s) to lower their blood pressure should take them as advised by their primary care doctor.

*Incidence and mortality statistics by county of residence for cancers of the kidney and renal pelvis are presented in Appendix VIII (Table 16).*



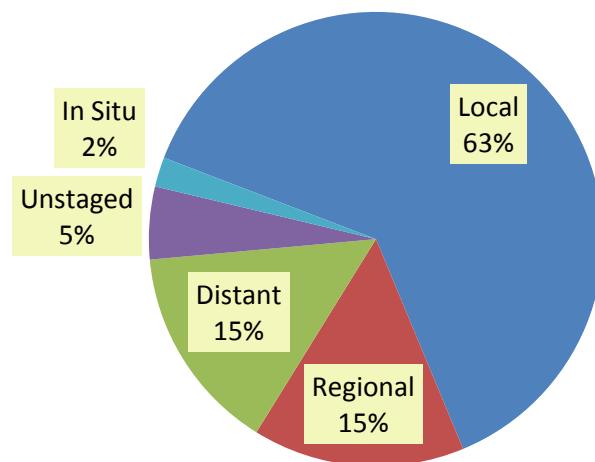
## Kidney and Renal Pelvis Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Kidney and Renal Pelvis Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



## Melanoma of the Skin

There are several different types of skin cancer, but melanomas are the most serious. Nationally, melanomas comprise only about 5% of all skin cancer diagnoses but about 80% of all skin cancer deaths. Specifically, in Nebraska, melanomas of the skin accounted for 1,672 diagnoses and 290 deaths between 2006 and 2010. The incidence of melanoma continues to increase significantly in Nebraska and throughout the United States. Because most melanomas are discovered early in their development and can be surgically removed, the 5-year survival rate is now over 90%.

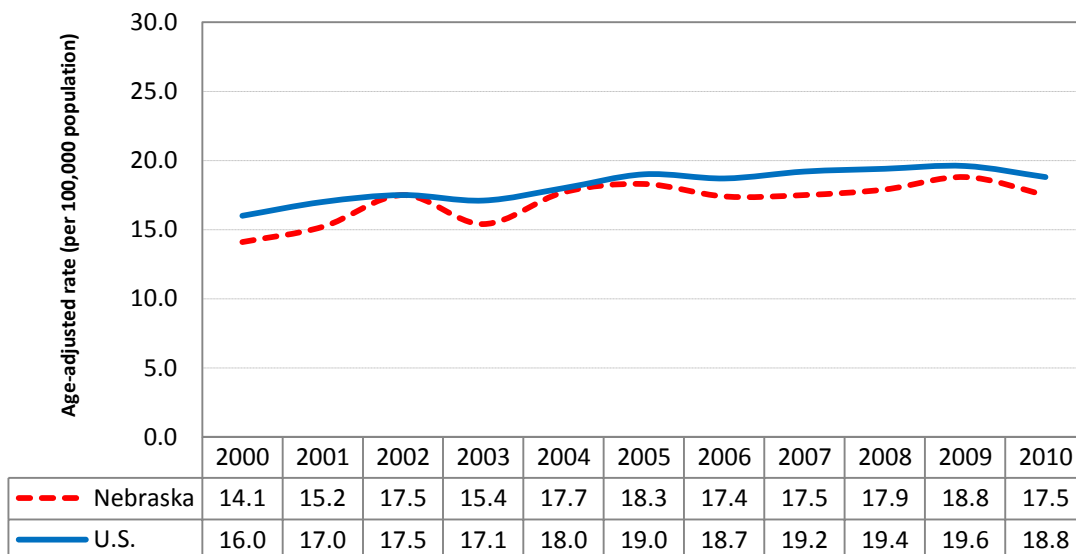
Melanoma is related to exposure to ultraviolet radiation (most of which comes from the sun), particularly exposures during childhood that resulted in severe sunburns. The risk of developing melanoma is particularly high among people with light skin. Sun exposure is not the only risk factor. Family history of melanoma and the presence of numerous dysplastic nevi (large moles with irregular coloration and shape) also increase a person's risk of the disease.

Skin melanomas are among the most preventable and treatable of all cancers. Wearing protective clothing and using sunscreen are the best methods for preventing the disease, and children in particular should have such protection. In addition, early detection can greatly reduce the risk of melanoma mortality. Recognition of changes in skin growths or the appearance of new growths is the best way to find melanomas early in their development. The ACS suggests that adults practice skin self-examination on a monthly basis, and that suspicious lesions should be evaluated promptly by a physician.

*Incidence and mortality statistics by county of residence for melanoma of the skin are presented in Appendix IX (Table 17).*

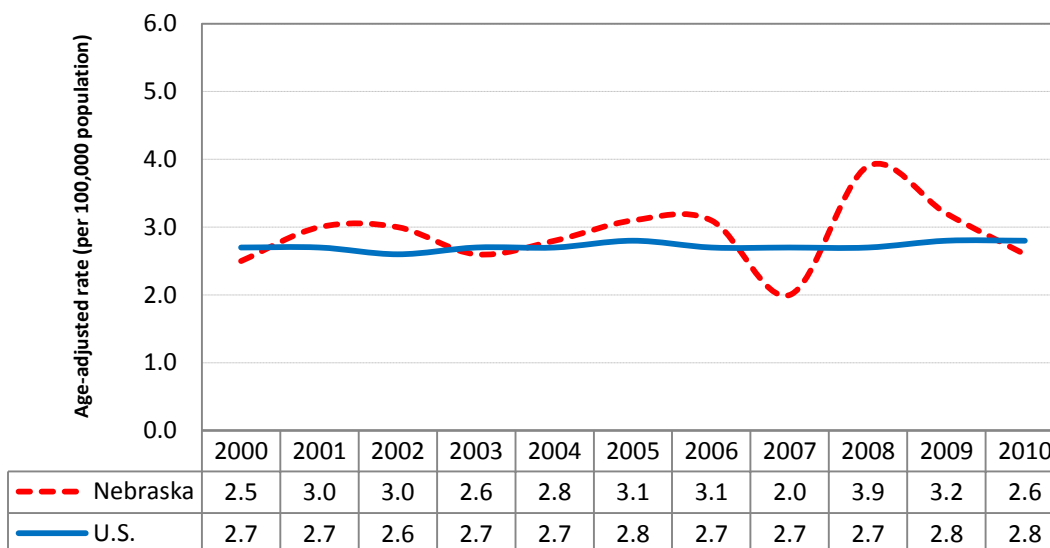
## Melanoma of the Skin

Incidence Rates, Nebraska & U.S. (2000-2010)



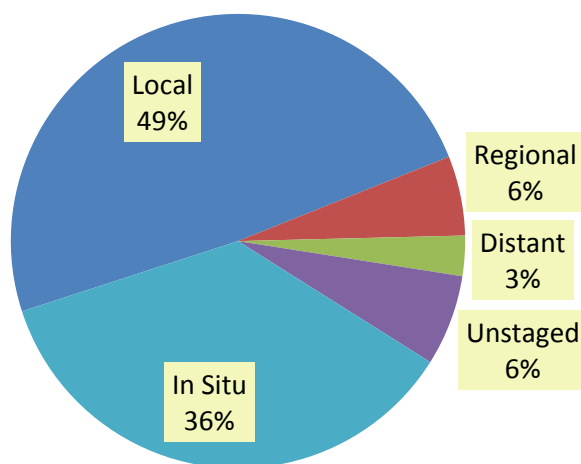
## Melanoma of the Skin

Mortality Rates, Nebraska & U.S. (2000-2010)



## Melanoma of the Skin

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



## Pancreas

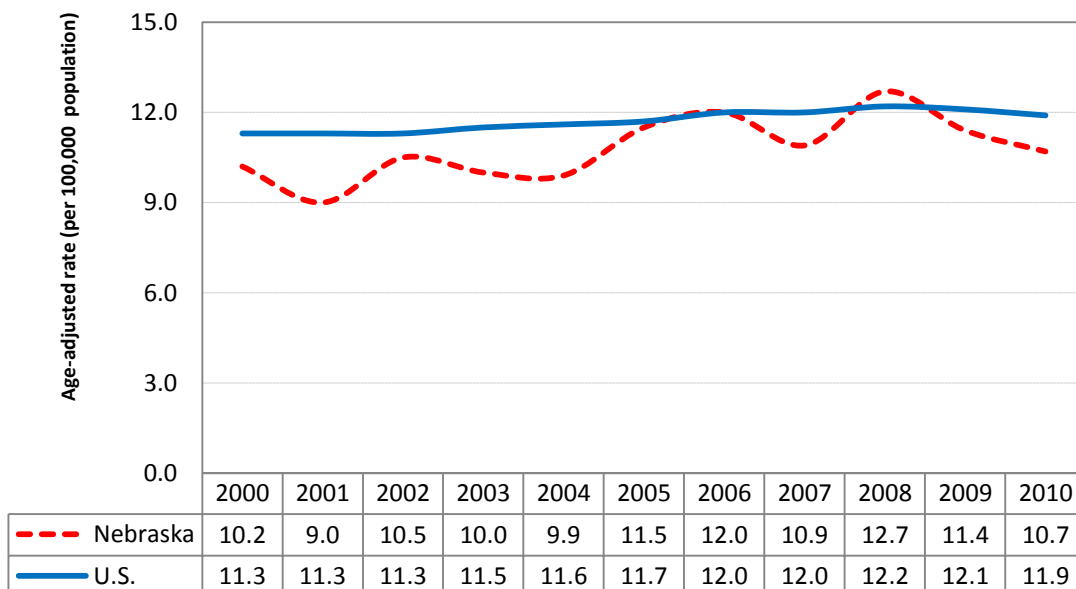
Although it does not rank as one of Nebraska's top ten most frequently diagnosed types of cancer, cancer of the pancreas is the fourth most deadly cancer in Nebraska and throughout the United States. In Nebraska, pancreatic cancer accounted for 1,144 diagnoses and 1,079 deaths between 2006 and 2010. Diagnosis does not usually occur until the disease is well advanced, due to a lack of symptoms. As a result, survival is poor: the most recent national 5-year survival rate is only 6%. Nationally, pancreatic cancer has shown a slightly upward trend during the past 10 years.

Preventable risk factors for cancer of the pancreas include cigarette smoking and obesity. Smokers have two times the risk of developing the disease as do nonsmokers, and about 20% of pancreatic cancers are attributable to smoking. Non-preventable risk factors include family history, genetic factors, age, and certain medical conditions. Individuals 70 years of age or older have a four times higher risk of developing pancreatic cancer within the next 10 years than those age 50. Medical conditions like chronic pancreatitis (inflammation of the pancreas) and diabetes can heighten the risk of pancreatic cancer, although both of these conditions may also be early symptoms of the disease. Unfortunately, no reliable screening test has been found to aid in prevention of the disease, and screening is not recommended for the general population.

*Incidence and mortality statistics by county of residence for cancers of the pancreas are presented in Appendix X (Table 18).*

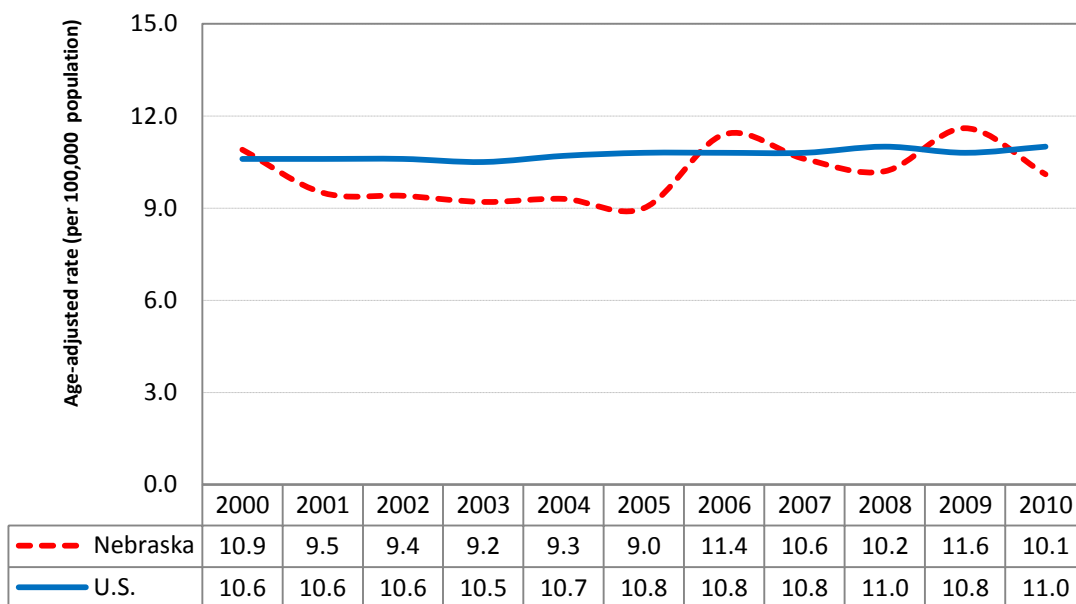
## Pancreatic Cancer

Incidence Rates, Nebraska & U.S. (2000-2010)



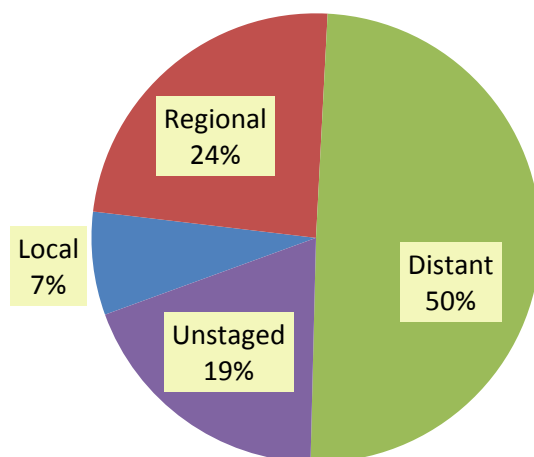
## Pancreatic Cancer

Mortality Rates, Nebraska & U.S. (2000-2010)



## Pancreatic Cancer

Percentage of Cases, by Stage of Disease at Diagnosis  
Nebraska, 2006-2010



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## APPENDICES

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**TABLE 9: Lung and Bronchus Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 999,050          | 66.6        | 792,213          | 49.5        |
| NEBRASKA      | 5,978            | 61.3        | 4,537            | 46.2        |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 111              | 59.2        | 95               | 49.6        |
| ANTELOPE      | 26               | 49.1        | 18               | 33.8        |
| ARTHUR        | 0                | 0.0         | *                | **          |
| BANNER        | 4                | **          | *                | **          |
| BLAINE        | *                | **          | 3                | **          |
| BOONE         | 27               | 65.7        | 19               | 39.3        |
| BOX BUTTE     | 37               | 53.5        | 29               | 41.1        |
| BOYD          | 15               | 70.1        | 11               | 51.6        |
| BROWN         | 10               | 36.8        | 13               | 43.5        |
| BUFFALO       | 134              | 60.3        | 110              | 49.8        |
| BURT          | 40               | 67.9        | 32               | 56.8        |
| BUTLER        | 24               | 43.3        | 19               | 31.6        |
| CASS          | 104              | 71.6        | 77               | 51.8        |
| CEDAR         | 23               | 33.7▽       | 22               | 31.5▽       |
| CHASE         | 17               | 57.8        | 11               | 34.8        |
| CHERRY        | 25               | 56.7        | 22               | 48.3        |
| CHEYENNE      | 37               | 58.2        | 33               | 49.0        |
| CLAY          | 41               | 87.6        | 32               | 68.1        |
| COLFAX        | 42               | 71.9        | 23               | 40.3        |
| CUMING        | 28               | 39.7▽       | 21               | 29.3▽       |
| CUSTER        | 59               | 70.4        | 46               | 50.7        |
| DAKOTA        | 75               | 74.2        | 52               | 52.2        |
| DAWES         | 20               | 38.1▽       | 18               | 31.0        |
| DAWSON        | 51               | 38.8▼       | 41               | 30.2▼       |
| DEUEL         | 5                | **          | 3                | **          |
| DIXON         | 24               | 58.7        | 9                | 20.8▼       |
| DODGE         | 170              | 67.7        | 140              | 54.4        |
| DOUGLAS       | 1,664            | 73.0        | 1,199            | 52.9▲       |
| DUNDY         | 6                | 40.1        | 6                | 33.4        |
| FILLMORE      | 26               | 51.4        | 16               | 31.9        |
| FRANKLIN      | 13               | 48.4        | 8                | 25.6▽       |
| FRONTIER      | 13               | 77.0        | 14               | 77.3        |
| FURNAS        | 21               | 49.9        | 12               | 27.2▽       |
| GAGE          | 94               | 58.3        | 78               | 48.9        |
| GARDEN        | 11               | 54.8        | 5                | **          |
| GARFIELD      | 9                | 44.8        | 5                | **          |
| GOSPER        | 10               | 61.8        | 5                | **          |
| GRANT         | *                | **          | *                | **          |
| GREELEY       | 10               | 46.2        | 9                | 40.6        |
| HALL          | 180              | 58.5        | 146              | 46.7        |
| HAMILTON      | 24               | 40.8▽       | 20               | 32.9        |
| HARLAN        | 17               | 54.1        | 19               | 59.4        |
| HAYES         | 5                | **          | 5                | **          |
| HITCHCOCK     | 20               | 78.0        | 16               | 61.1        |
| HOLT          | 48               | 59.8        | 43               | 52.1        |
| HOOKER        | 4                | **          | 3                | **          |
| HOWARD        | 33               | 72.6        | 22               | 49.4        |
| JEFFERSON     | 41               | 61.2        | 29               | 44.0        |

**TABLE 9 (continued): Lung and Bronchus Cancer Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |       |
|--------------|-----------|-------|-----------|-------|
|              | # Cases   | Rate  | # Deaths  | Rate  |
| JOHNSON      | 23        | 61.0  | 13        | 31.4  |
| KEARNEY      | 25        | 56.4  | 16        | 35.0  |
| KEITH        | 30        | 43.4▽ | 28        | 41.8  |
| KEYA PAHA    | *         | **    | *         | **    |
| KIMBALL      | 17        | 57.6  | 11        | 37.5  |
| KNOX         | 50        | 68.7  | 36        | 46.7  |
| LANCASTER    | 745       | 58.5  | 549       | 43.4  |
| LINCOLN      | 149       | 68.0  | 104       | 46.7  |
| LOGAN        | 3         | **    | *         | **    |
| LOUP         | 5         | **    | *         | **    |
| McPHERSON    | *         | **    | *         | **    |
| MADISON      | 155       | 78.0  | 101       | 50.8△ |
| MERRICK      | 31        | 56.8  | 22        | 39.2  |
| MORRILL      | 18        | 50.6  | 10        | 29.8  |
| NANCE        | 15        | 50.2  | 14        | 47.3  |
| NEMAHA       | 25        | 50.6  | 18        | 35.0  |
| NUCKOLLS     | 19        | 44.3  | 13        | 29.4  |
| OTOE         | 63        | 57.5  | 55        | 50.0  |
| PAWNEE       | 12        | 47.8  | 9         | 33.5  |
| PERKINS      | 12        | 52.8  | 9         | 41.2  |
| PHELPS       | 32        | 49.1  | 18        | 27.0▼ |
| PIERCE       | 30        | 61.4  | 21        | 43.0  |
| PLATTE       | 92        | 50.2  | 80        | 44.1  |
| POLK         | 20        | 48.9  | 15        | 35.8  |
| RED WILLOW   | 47        | 60.4  | 46        | 57.8  |
| RICHARDSON   | 48        | 71.1  | 38        | 55.6  |
| ROCK         | 5         | **    | *         | **    |
| SALINE       | 52        | 62.7  | 38        | 46.1  |
| SARPY        | 361       | 65.5  | 266       | 48.3  |
| SAUNDERS     | 90        | 69.7  | 78        | 60.1  |
| SCOTTS BLUFF | 113       | 46.9▼ | 97        | 39.2  |
| SEWARD       | 45        | 45.1▽ | 48        | 47.5  |
| SHERIDAN     | 20        | 42.7  | 16        | 32.5  |
| SHERMAN      | 17        | 62.7  | 22        | 85.7△ |
| SIOUX        | *         | **    | *         | **    |
| STANTON      | 11        | 32.6▼ | 13        | 38.2  |
| THAYER       | 21        | 42.4  | 16        | 30.3  |
| THOMAS       | *         | **    | *         | **    |
| THURSTON     | 22        | 66.4  | 16        | 48.2  |
| VALLEY       | 20        | 52.7  | 12        | 30.1  |
| WASHINGTON   | 66        | 57.2  | 59        | 51.8  |
| WAYNE        | 12        | 21.4▼ | 13        | 23.9▼ |
| WEBSTER      | 24        | 73.4  | 14        | 41.2  |
| WHEELER      | 0         | 0.0   | 0         | 0.0   |
| YORK         | 26        | 27.3▼ | 30        | 31.5▽ |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 10: Female Breast Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 987,033          | 121.9       | 203,683          | 22.7        |
| NEBRASKA      | 6,257            | 122.3       | 1,115            | 20.1        |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 134              | 147.9       | 22               | 22.5        |
| ANTELOPE      | 34               | 138.5       | 10               | 35.3        |
| ARTHUR        | *                | **          | 0                | 0.0         |
| BANNER        | *                | **          | 0                | 0.0         |
| BLAINE        | *                | **          | 0                | 0.0         |
| BOONE         | 24               | 109.9       | 5                | **          |
| BOX BUTTE     | 45               | 117.1       | 10               | 23.5        |
| BOYD          | 12               | 173.8       | 0                | 0.0         |
| BROWN         | 11               | 81.9        | *                | **          |
| BUFFALO       | 148              | 124.3       | 29               | 24.2        |
| BURT          | 36               | 123.7       | 5                | **          |
| BUTLER        | 34               | 117.4       | 11               | 30.6        |
| CASS          | 85               | 118.0       | 14               | 19.0        |
| CEDAR         | 25               | 74.1 ▼      | 4                | **          |
| CHASE         | 15               | 117.8       | 4                | **          |
| CHERRY        | 27               | 125.9       | 3                | **          |
| CHEYENNE      | 42               | 132.6       | 8                | 25.8        |
| CLAY          | 20               | 85.8        | 4                | **          |
| COLFAX        | 21               | 77.9 ▽      | 14               | 42.2        |
| CUMING        | 32               | 106.8       | 3                | **          |
| CUSTER        | 49               | 125.1       | 11               | 17.7        |
| DAKOTA        | 46               | 85.2 ▼      | 6                | 10.4 ▽      |
| DAWES         | 30               | 114.5       | 8                | 21.7        |
| DAWSON        | 62               | 89.1 ▼      | 12               | 18.2        |
| DEUEL         | 14               | 152.8       | *                | **          |
| DIXON         | 19               | 96.8        | 4                | **          |
| DODGE         | 166              | 136.8       | 30               | 20.6        |
| DOUGLAS       | 1,681            | 129.4       | 292              | 22.0        |
| DUNDY         | 8                | 91.4        | 3                | **          |
| FILLMORE      | 25               | 119.7       | 6                | 19.6        |
| FRANKLIN      | 21               | 165.0       | *                | **          |
| FRONTIER      | 5                | **          | 4                | **          |
| FURNAS        | 23               | 120.2       | *                | **          |
| GAGE          | 116              | 145.3       | 19               | 20.4        |
| GARDEN        | 12               | 133.8       | 3                | **          |
| GARFIELD      | 11               | 112.2       | 3                | **          |
| GOSPER        | 10               | 128.4       | *                | **          |
| GRANT         | *                | **          | 0                | 0.0         |
| GREELEY       | 4                | **          | *                | **          |
| HALL          | 172              | 107.3       | 30               | 17.7        |
| HAMILTON      | 37               | 125.3       | 4                | **          |
| HARLAN        | 22               | 200.4       | 8                | 51.1        |
| HAYES         | *                | **          | 0                | 0.0         |
| HITCHCOCK     | 12               | 95.2        | 3                | **          |
| HOLT          | 43               | 117.6       | 6                | 13.0        |
| HOOKER        | 4                | **          | 0                | 0.0         |
| HOWARD        | 24               | 107.9       | 7                | 28.5        |
| JEFFERSON     | 25               | 70.2 ▼      | 8                | 19.8        |

**TABLE 10 (continued): Female Breast Cancer Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |       |
|--------------|-----------|-------|-----------|-------|
|              | # Cases   | Rate  | # Deaths  | Rate  |
| JOHNSON      | 19        | 106.8 | 8         | 39.2  |
| KEARNEY      | 24        | 106.2 | *         | **    |
| KEITH        | 29        | 86.9▽ | 7         | 19.7  |
| KEYA PAHA    | *         | **    | *         | **    |
| KIMBALL      | 17        | 126.5 | 4         | **    |
| KNOX         | 36        | 117.4 | 3         | **    |
| LANCASTER    | 909       | 129.6 | 124       | 16.9  |
| LINCOLN      | 130       | 120.8 | 31        | 26.8  |
| LOGAN        | *         | **    | 0         | 0.0   |
| LOUP         | 5         | **    | 0         | 0.0   |
| McPHERSON    | *         | **    | 0         | 0.0   |
| MADISON      | 133       | 135.2 | 33        | 28.9  |
| MERRICK      | 35        | 125.5 | 4         | **    |
| MORRILL      | 19        | 122.1 | *         | **    |
| NANCE        | 10        | 71.8▽ | 3         | **    |
| NEMAHA       | 28        | 107.1 | 4         | **    |
| NUCKOLLS     | 19        | 116.4 | 6         | 21.1  |
| OTOE         | 54        | 99.7  | 7         | 10.5▽ |
| PAWNEE       | 11        | 78.7  | 5         | **    |
| PERKINS      | 8         | 54.4▼ | *         | **    |
| PHELPS       | 36        | 107.5 | 8         | 20.3  |
| PIERCE       | 18        | 73.3▼ | 3         | **    |
| PLATTE       | 116       | 121.3 | 18        | 18.3  |
| POLK         | 28        | 145.1 | 7         | 36.2  |
| RED WILLOW   | 40        | 103.4 | 9         | 19.2  |
| RICHARDSON   | 42        | 125.3 | 12        | 20.3  |
| ROCK         | 5         | **    | 0         | 0.0   |
| SALINE       | 53        | 125.7 | 4         | **    |
| SARPY        | 450       | 130.4 | 65        | 20.7  |
| SAUNDERS     | 70        | 110.9 | 17        | 25.8  |
| SCOTTS BLUFF | 168       | 138.8 | 34        | 26.1  |
| SEWARD       | 58        | 114.0 | 16        | 25.4  |
| SHERIDAN     | 21        | 93.6  | 3         | **    |
| SHERMAN      | 14        | 127.6 | *         | **    |
| SIOUX        | *         | **    | *         | **    |
| STANTON      | 8         | 42.3▼ | 4         | **    |
| THAYER       | 16        | 77.5▽ | *         | **    |
| THOMAS       | *         | **    | 0         | 0.0   |
| THURSTON     | 19        | 104.7 | 6         | 32.9  |
| VALLEY       | 9         | 55.9▼ | 4         | **    |
| WASHINGTON   | 78        | 131.0 | 12        | 17.8  |
| WAYNE        | 26        | 112.2 | 6         | 24.7  |
| WEBSTER      | 22        | 156.0 | *         | **    |
| WHEELER      | *         | **    | 0         | 0.0   |
| YORK         | 69        | 142.5 | 16        | 29.8  |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 11: Colon & Rectum (Colorectal) Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 672,211          | 44.7        | 134,624          | 16.4        |
| NEBRASKA      | 5,004            | 50.6        | 1,813            | 17.8        |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 116              | 59.9        | 26               | 13.2        |
| ANTELOPE      | 27               | 49.7        | 8                | 13.3        |
| ARTHUR        | 3                | **          | *                | **          |
| BANNER        | *                | **          | 0                | 0.0         |
| BLAINE        | 0                | 0.0         | 0                | 0.0         |
| BOONE         | 27               | 66.0        | 12               | 26.5        |
| BOX BUTTE     | 28               | 38.9        | 12               | 15.6        |
| BOYD          | 9                | 40.7        | 3                | **          |
| BROWN         | 20               | 69.4        | 3                | **          |
| BUFFALO       | 120              | 52.5        | 52               | 22.6        |
| BURT          | 30               | 45.4        | 16               | 23.8        |
| BUTLER        | 35               | 56.0        | 10               | 14.1        |
| CASS          | 85               | 58.8        | 31               | 21.7        |
| CEDAR         | 26               | 35.6        | 10               | 12.1        |
| CHASE         | 13               | 38.7        | 3                | **          |
| CHERRY        | 23               | 50.5        | 10               | 24.5        |
| CHEYENNE      | 25               | 36.9        | 9                | 12.3        |
| CLAY          | 29               | 58.9        | 10               | 20.3        |
| COLFAX        | 26               | 41.8        | 20               | 31.8        |
| CUMING        | 33               | 45.0        | 16               | 21.5        |
| CUSTER        | 42               | 50.5        | 16               | 17.1        |
| DAKOTA        | 56               | 57.2        | 19               | 19.0        |
| DAWES         | 17               | 35.5        | 8                | 13.9        |
| DAWSON        | 83               | 62.4        | 23               | 16.4        |
| DEUEL         | 8                | 51.1        | *                | **          |
| DIXON         | 21               | 52.4        | 12               | 28.1        |
| DODGE         | 142              | 57.6        | 57               | 21.5        |
| DOUGLAS       | 1,140            | 49.2        | 393              | 16.8        |
| DUNDY         | 6                | 33.9        | 6                | 30.5        |
| FILLMORE      | 24               | 53.1        | 12               | 22.9        |
| FRANKLIN      | 11               | 39.1        | *                | **          |
| FRONTIER      | 13               | 63.5        | 5                | **          |
| FURNAS        | 32               | 75.6        | 9                | 18.7        |
| GAGE          | 90               | 54.9        | 44               | 24.8        |
| GARDEN        | 4                | **          | *                | **          |
| GARFIELD      | 13               | 65.5        | *                | **          |
| GOSPER        | 7                | 48.6        | 4                | **          |
| GRANT         | *                | **          | 0                | 0.0         |
| GREELEY       | 11               | 46.7        | 5                | **          |
| HALL          | 181              | 57.0        | 73               | 23.0        |
| HAMILTON      | 20               | 31.8▽       | 8                | 12.2        |
| HARLAN        | 27               | 85.7△       | 12               | 37.7        |
| HAYES         | *                | **          | 0                | 0.0         |
| HITCHCOCK     | 6                | 23.7▼       | *                | **          |
| HOLT          | 48               | 57.7        | 19               | 21.7        |
| HOOKER        | 5                | **          | *                | **          |
| HOWARD        | 27               | 60.8        | 9                | 19.5        |
| JEFFERSON     | 31               | 48.7        | 8                | 10.4        |

**TABLE 11 (continued): Colon & Rectum (Colorectal) Cancer Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |       |
|--------------|-----------|-------|-----------|-------|
|              | # Cases   | Rate  | # Deaths  | Rate  |
| JOHNSON      | 28        | 74.1  | 9         | 22.6  |
| KEARNEY      | 27        | 60.8  | 9         | 17.6  |
| KEITH        | 32        | 52.3  | 15        | 23.2  |
| KEYA PAHA    | 7         | 87.4  | 3         | **    |
| KIMBALL      | 12        | 38.1  | 6         | 17.6  |
| KNOX         | 36        | 51.5  | 19        | 23.9  |
| LANCASTER    | 586       | 45.7  | 182       | 14.0▼ |
| LINCOLN      | 95        | 43.1  | 34        | 14.5  |
| LOGAN        | *         | **    | 0         | 0.0   |
| LOUP         | 5         | **    | 0         | 0.0   |
| McPHERSON    | *         | **    | *         | **    |
| MADISON      | 116       | 56.9  | 48        | 22.9  |
| MERRICK      | 28        | 52.5  | 16        | 29.5  |
| MORRILL      | 16        | 43.7  | 6         | 15.2  |
| NANCE        | 19        | 60.7  | 8         | 27.8  |
| NEMAHA       | 27        | 53.3  | 8         | 16.3  |
| NUCKOLLS     | 27        | 63.8  | 8         | 15.5  |
| OTOE         | 52        | 47.6  | 20        | 17.1  |
| PAWNEE       | 17        | 61.4  | 5         | **    |
| PERKINS      | 12        | 62.3  | 5         | **    |
| PHELPS       | 28        | 42.6  | 8         | 11.0  |
| PIERCE       | 38        | 74.3  | 14        | 26.3  |
| PLATTE       | 106       | 58.1  | 34        | 19.1  |
| POLK         | 21        | 51.9  | 7         | 14.5  |
| RED WILLOW   | 47        | 59.0  | 15        | 16.6  |
| RICHARDSON   | 47        | 68.7  | 17        | 20.8  |
| ROCK         | 9         | 89.3  | 5         | **    |
| SALINE       | 64        | 78.6▲ | 19        | 21.4  |
| SARPY        | 272       | 48.3  | 86        | 16.4  |
| SAUNDERS     | 71        | 55.9  | 33        | 26.1  |
| SCOTTS BLUFF | 111       | 48.3  | 34        | 13.5  |
| SEWARD       | 52        | 52.6  | 19        | 18.1  |
| SHERIDAN     | 25        | 64.1  | 10        | 20.3  |
| SHERMAN      | 13        | 47.0  | 4         | **    |
| SIOUX        | 0         | 0.0   | *         | **    |
| STANTON      | 14        | 38.7  | 4         | **    |
| THAYER       | 23        | 44.4  | 10        | 16.8  |
| THOMAS       | *         | **    | 0         | 0.0   |
| THURSTON     | 19        | 57.8  | 12        | 34.2  |
| VALLEY       | 12        | 33.0  | 8         | 20.5  |
| WASHINGTON   | 47        | 40.8  | 22        | 19.8  |
| WAYNE        | 28        | 54.6  | 12        | 21.7  |
| WEBSTER      | 29        | 80.5  | 13        | 37.1  |
| WHEELER      | 0         | 0.0   | *         | **    |
| YORK         | 37        | 40.4  | 17        | 16.1  |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

▲county rate is significantly higher than the state rate (99% confidence level)

**TABLE 12: Prostate Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 1,022,829        | 146.2       | 142,586          | 23.0        |
| NEBRASKA      | 6,424            | 143.0       | 931              | 22.9        |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 114              | 134.4       | 17               | 20.8        |
| ANTELOPE      | 44               | 179.0       | 3                | **          |
| ARTHUR        | *                | **          | 0                | 0.0         |
| BANNER        | 3                | **          | 0                | 0.0         |
| BLAINE        | 3                | **          | *                | **          |
| BOONE         | 32               | 163.8       | 3                | **          |
| BOX BUTTE     | 45               | 140.9       | 3                | **          |
| BOYD          | 10               | 116.6       | *                | **          |
| BROWN         | 28               | 217.3       | 5                | **          |
| BUFFALO       | 156              | 152.0       | 15               | 17.2        |
| BURT          | 35               | 130.0       | 8                | 29.9        |
| BUTLER        | 40               | 144.4       | *                | **          |
| CASS          | 84               | 122.0       | 10               | 19.5        |
| CEDAR         | 32               | 101.9▽      | 9                | 26.5        |
| CHASE         | 31               | 222.7       | *                | **          |
| CHERRY        | 29               | 140.6       | 3                | **          |
| CHEYENNE      | 47               | 164.4       | 9                | 33.0        |
| CLAY          | 40               | 177.6       | 7                | 34.8        |
| COLFAX        | 45               | 171.4       | 7                | 27.1        |
| CUMING        | 51               | 157.1       | 3                | **          |
| CUSTER        | 58               | 146.3       | 10               | 26.2        |
| DAKOTA        | 57               | 121.4       | 10               | 26.0        |
| DAWES         | 31               | 121.6       | 12               | 49.0        |
| DAWSON        | 70               | 109.2▽      | 18               | 31.3        |
| DEUEL         | 9                | 109.5       | 3                | **          |
| DIXON         | 30               | 154.9       | 5                | **          |
| DODGE         | 218              | 196.4▲      | 18               | 15.9        |
| DOUGLAS       | 1,532            | 146.5       | 210              | 24.1        |
| DUNDY         | 12               | 155.4       | *                | **          |
| FILLMORE      | 29               | 138.2       | 5                | **          |
| FRANKLIN      | 18               | 136.3       | 4                | **          |
| FRONTIER      | 23               | 234.4       | 4                | **          |
| FURNAS        | 21               | 112.9       | 4                | **          |
| GAGE          | 78               | 106.5▼      | 18               | 24.4        |
| GARDEN        | 13               | 143.5       | *                | **          |
| GARFIELD      | 14               | 161.6       | *                | **          |
| GOSPER        | 19               | 236.0       | *                | **          |
| GRANT         | 6                | 241.5       | 0                | 0.0         |
| GREELEY       | 18               | 171.2       | *                | **          |
| HALL          | 246              | 170.2△      | 22               | 17.0        |
| HAMILTON      | 35               | 125.7       | 5                | **          |
| HARLAN        | 22               | 141.4       | 6                | 37.5        |
| HAYES         | 6                | 166.3       | 0                | 0.0         |
| HITCHCOCK     | 15               | 123.4       | *                | **          |
| HOLT          | 58               | 159.2       | 10               | 25.2        |
| HOOKER        | 5                | **          | *                | **          |
| HOWARD        | 38               | 177.8       | 4                | **          |
| JEFFERSON     | 31               | 104.9       | 12               | 37.4        |



**TABLE 12 (continued): Prostate Cancer Incidence and Mortality**

| <u>COUNTY</u> | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| JOHNSON       | 21               | 128.3       | 4                | **          |
| KEARNEY       | 20               | 94.6▽       | *                | **          |
| KEITH         | 35               | 115.5       | 7                | 26.4        |
| KEYA PAHA     | *                | **          | *                | **          |
| KIMBALL       | 17               | 122.2       | *                | **          |
| KNOX          | 48               | 148.0       | 8                | 24.7        |
| LANCASTER     | 739              | 123.5▼      | 117              | 23.6        |
| LINCOLN       | 131              | 128.0       | 19               | 21.4        |
| LOGAN         | 7                | 239.7       | 0                | 0.0         |
| LOUP          | 11               | 466.2△      | *                | **          |
| McPHERSON     | *                | **          | 0                | 0.0         |
| MADISON       | 161              | 181.0△      | 18               | 20.8        |
| MERRICK       | 44               | 171.8       | 4                | **          |
| MORRILL       | 27               | 153.4       | 3                | **          |
| NANCE         | 14               | 106.8       | *                | **          |
| NEMAHA        | 30               | 131.0       | 8                | 36.0        |
| NUCKOLLS      | 26               | 133.4       | 6                | 26.4        |
| OTOE          | 53               | 104.8▽      | 13               | 25.6        |
| PAWNEE        | 18               | 157.5       | 7                | 53.2        |
| PERKINS       | 11               | 104.2       | 0                | 0.0         |
| PHELPS        | 40               | 137.0       | 13               | 42.7        |
| PIERCE        | 40               | 179.0       | 5                | **          |
| PLATTE        | 138              | 166.0       | 11               | 14.3        |
| POLK          | 22               | 118.1       | 0                | 0.0         |
| RED WILLOW    | 41               | 116.8       | 6                | 16.7        |
| RICHARDSON    | 28               | 88.2▼       | 9                | 26.4        |
| ROCK          | 16               | 265.8       | *                | **          |
| SALINE        | 61               | 164.7       | 11               | 30.2        |
| SARPY         | 399              | 146.9       | 41               | 22.3        |
| SAUNDERS      | 90               | 149.7       | 13               | 25.5        |
| SCOTTS BLUFF  | 169              | 158.5       | 21               | 20.0        |
| SEWARD        | 56               | 118.5       | 10               | 23.5        |
| SHERIDAN      | 26               | 127.9       | 8                | 33.1        |
| SHERMAN       | 15               | 120.5       | 4                | **          |
| SIOUX         | 6                | 102.8       | 0                | 0.0         |
| STANTON       | 6                | 37.3▼       | 4                | **          |
| THAYER        | 30               | 140.9       | 7                | 25.7        |
| THOMAS        | 4                | **          | 0                | 0.0         |
| THURSTON      | 19               | 128.2       | *                | **          |
| VALLEY        | 29               | 178.5       | 6                | 32.8        |
| WASHINGTON    | 73               | 140.6       | 13               | 30.1        |
| WAYNE         | 39               | 158.8       | 5                | **          |
| WEBSTER       | 25               | 166.7       | 4                | **          |
| WHEELER       | 6                | 205.7       | 0                | 0.0         |
| YORK          | 48               | 114.1       | 14               | 33.3        |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 male population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

▲county rate is significantly higher than the state rate (99% confidence level)

**TABLE 13: Urinary Bladder Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 312,240          | 20.9        | 70,285           | 4.4         |
| NEBRASKA      | 1,964            | 20.0        | 414              | 4.0         |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 38               | 19.3        | 7                | 3.3         |
| ANTELOPE      | 13               | 25.1        | *                | **          |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | *                | **          | *                | **          |
| BLAINE        | *                | **          | 0                | 0.0         |
| BOONE         | 11               | 23.4        | 3                | **          |
| BOX BUTTE     | 9                | 12.7        | *                | **          |
| BOYD          | *                | **          | *                | **          |
| BROWN         | 3                | **          | *                | **          |
| BUFFALO       | 44               | 19.1        | 10               | 4.7         |
| BURT          | 10               | 15.2        | *                | **          |
| BUTLER        | 7                | 10.8▽       | 3                | **          |
| CASS          | 21               | 14.8        | 4                | **          |
| CEDAR         | 11               | 15.3        | 0                | 0.0         |
| CHASE         | 12               | 36.2        | 3                | **          |
| CHERRY        | 7                | 15.5        | *                | **          |
| CHEYENNE      | 21               | 32.1        | *                | **          |
| CLAY          | 7                | 14.5        | *                | **          |
| COLFAX        | 9                | 14.7        | *                | **          |
| CUMING        | 11               | 15.1        | 3                | **          |
| CUSTER        | 14               | 15.9        | 3                | **          |
| DAKOTA        | 17               | 17.6        | 5                | **          |
| DAWES         | 10               | 18.2        | *                | **          |
| DAWSON        | 33               | 24.5        | 4                | **          |
| DEUEL         | 3                | **          | *                | **          |
| DIXON         | *                | **          | *                | **          |
| DODGE         | 52               | 20.7        | 10               | 3.4         |
| DOUGLAS       | 504              | 22.1        | 121              | 5.4         |
| DUNDY         | 5                | **          | *                | **          |
| FILLMORE      | 6                | 10.2▽       | 3                | **          |
| FRANKLIN      | 3                | **          | 0                | 0.0         |
| FRONTIER      | 6                | 28.4        | 0                | 0.0         |
| FURNAS        | 15               | 34.2        | *                | **          |
| GAGE          | 35               | 19.4        | 7                | 3.3         |
| GARDEN        | 5                | **          | *                | **          |
| GARFIELD      | 7                | 32.4        | *                | **          |
| GOSPER        | 9                | 53.2        | 0                | 0.0         |
| GRANT         | 0                | 0.0         | 0                | 0.0         |
| GREELEY       | 4                | **          | *                | **          |
| HALL          | 63               | 19.4        | 16               | 4.7         |
| HAMILTON      | 12               | 21.5        | 4                | **          |
| HARLAN        | 7                | 22.0        | *                | **          |
| HAYES         | *                | **          | *                | **          |
| HITCHCOCK     | 7                | 26.6        | 0                | 0.0         |
| HOLT          | 13               | 15.5        | 3                | **          |
| HOOKER        | *                | **          | 0                | 0.0         |
| HOWARD        | 5                | **          | *                | **          |
| JEFFERSON     | 15               | 23.0        | 7                | 9.4         |

**TABLE 13 (continued): Urinary Bladder Cancer Incidence and Mortality**

| COUNTY       | Incidence |      | Mortality |      |
|--------------|-----------|------|-----------|------|
|              | # Cases   | Rate | # Deaths  | Rate |
| JOHNSON      | 5         | **   | 0         | 0.0  |
| KEARNEY      | 8         | 18.5 | 4         | **   |
| KEITH        | 13        | 20.1 | 4         | **   |
| KEYA PAHA    | 3         | **   | 0         | 0.0  |
| KIMBALL      | 8         | 27.1 | *         | **   |
| KNOX         | 10        | 12.2 | 3         | **   |
| LANCASTER    | 225       | 18.1 | 49        | 3.9  |
| LINCOLN      | 53        | 23.7 | 9         | 4.1  |
| LOGAN        | 3         | **   | 0         | 0.0  |
| LOUP         | 3         | **   | *         | **   |
| McPHERSON    | *         | **   | *         | **   |
| MADISON      | 33        | 15.6 | 5         | **   |
| MERRICK      | 5         | **   | *         | **   |
| MORRILL      | 6         | 15.7 | *         | **   |
| NANCE        | 3         | **   | *         | **   |
| NEMAHA       | 14        | 28.8 | *         | **   |
| NUCKOLLS     | *         | **   | 3         | **   |
| OTOE         | 26        | 23.2 | *         | **   |
| PAWNEE       | 3         | **   | 0         | 0.0  |
| PERKINS      | *         | **   | *         | **   |
| PHELPS       | 9         | 14.4 | *         | **   |
| PIERCE       | 12        | 24.4 | 3         | **   |
| PLATTE       | 28        | 14.4 | 10        | 5.2  |
| POLK         | 7         | 15.0 | *         | **   |
| RED WILLOW   | 22        | 27.5 | 4         | **   |
| RICHARDSON   | 10        | 16.3 | *         | **   |
| ROCK         | *         | **   | 0         | 0.0  |
| SALINE       | 14        | 15.7 | 4         | **   |
| SARPY        | 125       | 23.2 | 18        | 3.9  |
| SAUNDERS     | 25        | 20.0 | 6         | 4.7  |
| SCOTTS BLUFF | 57        | 23.7 | 8         | 3.2  |
| SEWARD       | 22        | 21.6 | 3         | **   |
| SHERIDAN     | 6         | 10.9 | *         | **   |
| SHERMAN      | 4         | **   | *         | **   |
| SIOUX        | 0         | 0.0  | *         | **   |
| STANTON      | 4         | **   | *         | **   |
| THAYER       | 12        | 21.1 | 4         | **   |
| THOMAS       | *         | **   | 0         | 0.0  |
| THURSTON     | 7         | 21.9 | *         | **   |
| VALLEY       | 8         | 16.2 | 5         | **   |
| WASHINGTON   | 26        | 22.7 | *         | **   |
| WAYNE        | 11        | 20.1 | *         | **   |
| WEBSTER      | 9         | 25.1 | 0         | 0.0  |
| WHEELER      | *         | **   | 0         | 0.0  |
| YORK         | 24        | 23.7 | 4         | **   |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 14: Non-Hodgkin Lymphoma Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 286,940          | 19.2        | 102,174          | 6.4         |
| NEBRASKA      | 1,963            | 20.2        | 699              | 6.9         |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 43               | 24.1        | 17               | 8.2         |
| ANTELOPE      | 7                | 12.3        | 7                | 11.5        |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | 0                | 0.0         | *                | **          |
| BLAINE        | 0                | 0.0         | 0                | 0.0         |
| BOONE         | 10               | 26.8        | 4                | **          |
| BOX BUTTE     | 11               | 15.3        | 3                | **          |
| BOYD          | 0                | 0.0         | *                | **          |
| BROWN         | 5                | **          | *                | **          |
| BUFFALO       | 38               | 17.1        | 9                | 3.9         |
| BURT          | 11               | 22.2        | 6                | 8.9         |
| BUTLER        | 5                | **          | 5                | **          |
| CASS          | 34               | 23.2        | 15               | 10.5        |
| CEDAR         | 6                | 9.4▽        | 4                | **          |
| CHASE         | 7                | 21.7        | 4                | **          |
| CHERRY        | 7                | 17.7        | 3                | **          |
| CHEYENNE      | 18               | 28.8        | 4                | **          |
| CLAY          | 11               | 24.2        | 6                | 14.1        |
| COLFAX        | 12               | 21.4        | 5                | **          |
| CUMING        | 19               | 29.5        | 5                | **          |
| CUSTER        | 16               | 18.4        | 7                | 7.2         |
| DAKOTA        | 15               | 15.5        | 7                | 7.4         |
| DAWES         | 6                | 10.5▽       | 5                | **          |
| DAWSON        | 11               | 8.4▼        | 4                | **          |
| DEUEL         | 3                | **          | 0                | 0.0         |
| DIXON         | 9                | 21.3        | 4                | **          |
| DODGE         | 64               | 25.7        | 28               | 9.7         |
| DOUGLAS       | 516              | 21.8        | 168              | 7.3         |
| DUNDY         | 3                | **          | 3                | **          |
| FILLMORE      | 13               | 24.7        | 6                | 8.7         |
| FRANKLIN      | *                | **          | *                | **          |
| FRONTIER      | 5                | **          | *                | **          |
| FURNAS        | 15               | 34.3        | 9                | 21.8△       |
| GAGE          | 28               | 16.8        | 18               | 10.3        |
| GARDEN        | 4                | **          | 0                | 0.0         |
| GARFIELD      | 3                | **          | 0                | 0.0         |
| GOSPER        | 4                | **          | 0                | 0.0         |
| GRANT         | *                | **          | 0                | 0.0         |
| GREELEY       | *                | **          | 0                | 0.0         |
| HALL          | 78               | 25.3        | 19               | 6.0         |
| HAMILTON      | 15               | 25.6        | 4                | **          |
| HARLAN        | 4                | **          | *                | **          |
| HAYES         | *                | **          | *                | **          |
| HITCHCOCK     | 4                | **          | 0                | 0.0         |
| HOLT          | 10               | 15.5        | *                | **          |
| HOOKER        | 0                | 0.0         | 0                | 0.0         |
| HOWARD        | 14               | 34.2        | *                | **          |
| JEFFERSON     | 6                | 9.9▽        | *                | **          |

**TABLE 14 (continued): Non-Hodgkin Lymphoma Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |      |
|--------------|-----------|-------|-----------|------|
|              | # Cases   | Rate  | # Deaths  | Rate |
| JOHNSON      | 11        | 31.3  | 4         | **   |
| KEARNEY      | 6         | 15.3  | 3         | **   |
| KEITH        | 8         | 14.5  | *         | **   |
| KEYA PAHA    | 3         | **    | *         | **   |
| KIMBALL      | 6         | 20.5  | 4         | **   |
| KNOX         | 16        | 21.5  | 5         | **   |
| LANCASTER    | 264       | 20.5  | 96        | 7.4  |
| LINCOLN      | 45        | 20.6  | 11        | 4.5  |
| LOGAN        | 0         | 0.0   | 0         | 0.0  |
| LOUP         | 3         | **    | 0         | 0.0  |
| McPHERSON    | 0         | 0.0   | 0         | 0.0  |
| MADISON      | 34        | 16.9  | 15        | 7.6  |
| MERRICK      | 9         | 17.3  | 3         | **   |
| MORRILL      | 4         | **    | *         | **   |
| NANCE        | 7         | 24.9  | 3         | **   |
| NEMAHA       | 9         | 18.2  | 6         | 12.0 |
| NUCKOLLS     | 7         | 17.0  | *         | **   |
| OTOE         | 19        | 16.7  | 5         | **   |
| PAWNEE       | *         | **    | 3         | **   |
| PERKINS      | 3         | **    | *         | **   |
| PHELPS       | 7         | 10.3▽ | 3         | **   |
| PIERCE       | 5         | **    | *         | **   |
| PLATTE       | 36        | 20.5  | 4         | **   |
| POLK         | 5         | **    | *         | **   |
| RED WILLOW   | 13        | 16.6  | 8         | 9.4  |
| RICHARDSON   | 14        | 21.8  | 4         | **   |
| ROCK         | 3         | **    | 3         | **   |
| SALINE       | 15        | 18.6  | 7         | 6.9  |
| SARPY        | 124       | 21.5  | 35        | 6.6  |
| SAUNDERS     | 27        | 22.0  | 13        | 10.2 |
| SCOTTS BLUFF | 39        | 16.8  | 18        | 7.0  |
| SEWARD       | 26        | 26.2  | 9         | 8.0  |
| SHERIDAN     | 5         | **    | 4         | **   |
| SHERMAN      | 4         | **    | *         | **   |
| SIOUX        | *         | **    | 0         | 0.0  |
| STANTON      | *         | **    | *         | **   |
| THAYER       | 9         | 20.9  | 3         | **   |
| THOMAS       | 0         | 0.0   | 0         | 0.0  |
| THURSTON     | 8         | 23.1  | *         | **   |
| VALLEY       | 4         | **    | *         | **   |
| WASHINGTON   | 21        | 17.9  | 4         | **   |
| WAYNE        | 15        | 27.9  | 4         | **   |
| WEBSTER      | 6         | 17.7  | 3         | **   |
| WHEELER      | 0         | 0.0   | 0         | 0.0  |
| YORK         | 21        | 24.5  | 8         | 7.4  |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 15: Leukemia Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 186,443          | 12.6        | 111,739          | 7.1         |
| NEBRASKA      | 1,339            | 13.7        | 689              | 6.9         |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 27               | 13.6        | 17               | 8.2         |
| ANTELOPE      | 9                | 18.1        | 3                | **          |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | 0                | 0.0         | 0                | 0.0         |
| BLAINE        | 0                | 0.0         | 0                | 0.0         |
| BOONE         | 7                | 16.4        | 4                | **          |
| BOX BUTTE     | 9                | 12.2        | 7                | 7.9         |
| BOYD          | *                | **          | *                | **          |
| BROWN         | *                | **          | *                | **          |
| BUFFALO       | 22               | 9.7         | 24               | 10.6        |
| BURT          | 10               | 18.3        | 4                | **          |
| BUTLER        | 3                | **          | 0                | 0.0         |
| CASS          | 19               | 13.4        | 14               | 9.0         |
| CEDAR         | 5                | **          | 5                | **          |
| CHASE         | 6                | 19.0        | *                | **          |
| CHERRY        | 9                | 21.1        | 4                | **          |
| CHEYENNE      | 7                | 11.4        | 6                | 9.9         |
| CLAY          | 9                | 21.5        | 5                | **          |
| COLFAX        | 12               | 22.7        | 6                | 9.7         |
| CUMING        | 7                | 10.8        | 5                | **          |
| CUSTER        | 10               | 10.7        | 7                | 6.5         |
| DAKOTA        | 12               | 11.7        | 5                | **          |
| DAWES         | 6                | 10.1        | 7                | 11.5        |
| DAWSON        | 9                | 7.4         | 8                | 6.6         |
| DEUEL         | *                | **          | *                | **          |
| DIXON         | 10               | 22.0        | 8                | 16.6        |
| DODGE         | 28               | 11.7        | 18               | 6.5         |
| DOUGLAS       | 340              | 14.1        | 145              | 6.4         |
| DUNDY         | 3                | **          | *                | **          |
| FILLMORE      | 8                | 17.7        | *                | **          |
| FRANKLIN      | 0                | 0.0         | *                | **          |
| FRONTIER      | 3                | **          | 0                | 0.0         |
| FURNAS        | 4                | **          | *                | **          |
| GAGE          | 19               | 11.0        | 10               | 5.1         |
| GARDEN        | 5                | **          | *                | **          |
| GARFIELD      | 4                | **          | 3                | **          |
| GOSPER        | 4                | **          | 3                | **          |
| GRANT         | 0                | 0.0         | 0                | 0.0         |
| GREELEY       | 6                | 28.9        | *                | **          |
| HALL          | 40               | 13.3        | 18               | 5.4         |
| HAMILTON      | 10               | 16.7        | 3                | **          |
| HARLAN        | 6                | 25.3        | 0                | 0.0         |
| HAYES         | 0                | 0.0         | *                | **          |
| HITCHCOCK     | 4                | **          | *                | **          |
| HOLT          | 10               | 16.2        | 3                | **          |
| HOOKER        | 0                | 0.0         | 0                | 0.0         |
| HOWARD        | 6                | 14.4        | 6                | 12.4        |
| JEFFERSON     | 7                | 11.4        | 7                | 9.0         |

**TABLE 15 (continued): Leukemia Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |      |
|--------------|-----------|-------|-----------|------|
|              | # Cases   | Rate  | # Deaths  | Rate |
| JOHNSON      | 6         | 14.4  | *         | **   |
| KEARNEY      | 4         | **    | 3         | **   |
| KEITH        | 9         | 14.0  | 7         | 12.8 |
| KEYA PAHA    | 0         | 0.0   | 0         | 0.0  |
| KIMBALL      | 3         | **    | 5         | **   |
| KNOX         | 7         | 13.2  | 4         | **   |
| LANCASTER    | 179       | 13.8  | 92        | 6.9  |
| LINCOLN      | 40        | 18.0  | 12        | 5.5  |
| LOGAN        | 0         | 0.0   | 0         | 0.0  |
| LOUP         | *         | **    | 0         | 0.0  |
| McPHERSON    | *         | **    | 0         | 0.0  |
| MADISON      | 25        | 12.7  | 9         | 4.4  |
| MERRICK      | 4         | **    | *         | **   |
| MORRILL      | 7         | 18.4  | 5         | **   |
| NANCE        | 4         | **    | *         | **   |
| NEMAHA       | 5         | **    | 4         | **   |
| NUCKOLLS     | 3         | **    | *         | **   |
| OTOE         | 15        | 13.9  | 10        | 9.2  |
| PAWNEE       | 5         | **    | *         | **   |
| PERKINS      | 4         | **    | 3         | **   |
| PHELPS       | 7         | 12.1  | 6         | 8.9  |
| PIERCE       | 6         | 13.0  | 3         | **   |
| PLATTE       | 22        | 12.0  | 5         | **   |
| POLK         | 6         | 17.0  | *         | **   |
| RED WILLOW   | 15        | 20.7  | 7         | 9.1  |
| RICHARDSON   | 6         | 8.6   | 8         | 11.0 |
| ROCK         | *         | **    | 0         | 0.0  |
| SALINE       | 12        | 12.9  | 3         | **   |
| SARPY        | 84        | 13.3  | 38        | 6.7  |
| SAUNDERS     | 15        | 11.9  | 11        | 8.5  |
| SCOTTS BLUFF | 33        | 14.2  | 18        | 7.1  |
| SEWARD       | 13        | 12.4  | 5         | **   |
| SHERIDAN     | 5         | **    | 5         | **   |
| SHERMAN      | 11        | 44.4△ | 5         | **   |
| SIOUX        | *         | **    | *         | **   |
| STANTON      | 3         | **    | *         | **   |
| THAYER       | 10        | 20.4  | 6         | 13.5 |
| THOMAS       | 3         | **    | 0         | 0.0  |
| THURSTON     | 4         | **    | 4         | **   |
| VALLEY       | *         | **    | *         | **   |
| WASHINGTON   | 9         | 7.8   | 6         | 5.0  |
| WAYNE        | 6         | 13.6  | *         | **   |
| WEBSTER      | 5         | **    | 3         | **   |
| WHEELER      | *         | **    | 0         | 0.0  |
| YORK         | 17        | 18.2  | 14        | 13.8 |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

▲county rate is significantly higher than the state rate (99% confidence level)

**TABLE 16: Kidney and Renal Pelvis Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 239,266          | 15.8        | 64,191           | 4.0         |
| NEBRASKA      | 1,628            | 16.8        | 423              | 4.3         |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 20               | 11.8        | 9                | 5.5         |
| ANTELOPE      | 7                | 14.2        | *                | **          |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | *                | **          | *                | **          |
| BLAINE        | 0                | 0.0         | 0                | 0.0         |
| BOONE         | 6                | 15.9        | 3                | **          |
| BOX BUTTE     | 15               | 21.6        | *                | **          |
| BOYD          | *                | **          | 0                | 0.0         |
| BROWN         | *                | **          | 0                | 0.0         |
| BUFFALO       | 31               | 13.4        | 11               | 5.2         |
| BURT          | 8                | 14.2        | 4                | **          |
| BUTLER        | 8                | 12.3        | *                | **          |
| CASS          | 33               | 24.1        | 12               | 8.8         |
| CEDAR         | 13               | 20.3        | 5                | **          |
| CHASE         | *                | **          | 0                | 0.0         |
| CHERRY        | 5                | **          | 0                | 0.0         |
| CHEYENNE      | 8                | 13.9        | 0                | 0.0         |
| CLAY          | 7                | 15.6        | 3                | **          |
| COLFAX        | 4                | **          | *                | **          |
| CUMING        | 8                | 14.2        | *                | **          |
| CUSTER        | 11               | 13.3        | 3                | **          |
| DAKOTA        | 11               | 11.2        | 4                | **          |
| DAWES         | 6                | 10.9        | 6                | 11.2        |
| DAWSON        | 21               | 16.2        | 6                | 4.7         |
| DEUEL         | *                | **          | *                | **          |
| DIXON         | 6                | 15.2        | *                | **          |
| DODGE         | 53               | 22.8        | 17               | 6.7         |
| DOUGLAS       | 469              | 19.7△       | 115              | 5.0         |
| DUNDY         | *                | **          | 0                | 0.0         |
| FILLMORE      | 5                | **          | *                | **          |
| FRANKLIN      | 6                | 23.3        | *                | **          |
| FRONTIER      | *                | **          | 0                | 0.0         |
| FURNAS        | 7                | 18.6        | *                | **          |
| GAGE          | 27               | 19.2        | 8                | 4.7         |
| GARDEN        | *                | **          | 0                | 0.0         |
| GARFIELD      | *                | **          | *                | **          |
| GOSPER        | 3                | **          | 0                | 0.0         |
| GRANT         | *                | **          | *                | **          |
| GREELEY       | *                | **          | 0                | 0.0         |
| HALL          | 72               | 23.9△       | 7                | 2.1▽        |
| HAMILTON      | 7                | 12.2        | 5                | **          |
| HARLAN        | 6                | 21.3        | 3                | **          |
| HAYES         | *                | **          | 0                | 0.0         |
| HITCHCOCK     | 6                | 30.7        | *                | **          |
| HOLT          | 9                | 11.8        | *                | **          |
| HOOKE         | 3                | **          | 0                | 0.0         |
| HOWARD        | 4                | **          | *                | **          |
| JEFFERSON     | 5                | **          | 0                | 0.0         |



**TABLE 16 (continued): Kidney and Renal Pelvis Cancer Incidence and Mortality**

| COUNTY       | Incidence |      | Mortality |      |
|--------------|-----------|------|-----------|------|
|              | # Cases   | Rate | # Deaths  | Rate |
| JOHNSON      | 4         | **   | *         | **   |
| KEARNEY      | 9         | 19.7 | 0         | 0.0  |
| KEITH        | 8         | 11.6 | *         | **   |
| KEYA PAHA    | *         | **   | 0         | 0.0  |
| KIMBALL      | 5         | **   | *         | **   |
| KNOX         | 13        | 18.9 | 3         | **   |
| LANCASTER    | 202       | 15.4 | 47        | 3.8  |
| LINCOLN      | 31        | 14.8 | 3         | **   |
| LOGAN        | 3         | **   | 0         | 0.0  |
| LOUP         | 0         | 0.0  | 0         | 0.0  |
| McPHERSON    | *         | **   | 0         | 0.0  |
| MADISON      | 38        | 19.2 | 7         | 3.3  |
| MERRICK      | 16        | 31.4 | 6         | 10.6 |
| MORRILL      | 6         | 19.2 | *         | **   |
| NANCE        | 3         | **   | *         | **   |
| NEMAHA       | 8         | 17.9 | *         | **   |
| NUCKOLLS     | *         | **   | 0         | 0.0  |
| OTOE         | 11        | 10.6 | 6         | 5.8  |
| PAWNEE       | 4         | **   | *         | **   |
| PERKINS      | 3         | **   | 0         | 0.0  |
| PHELPS       | 11        | 19.3 | 4         | **   |
| PIERCE       | 3         | **   | *         | **   |
| PLATTE       | 24        | 13.2 | 9         | 4.6  |
| POLK         | 8         | 16.8 | 6         | 14.0 |
| RED WILLOW   | 12        | 15.1 | 3         | **   |
| RICHARDSON   | 15        | 21.4 | *         | **   |
| ROCK         | *         | **   | 0         | 0.0  |
| SALINE       | 15        | 20.8 | *         | **   |
| SARPY        | 118       | 18.7 | 23        | 4.2  |
| SAUNDERS     | 18        | 13.9 | 6         | 4.7  |
| SCOTTS BLUFF | 31        | 13.0 | 12        | 5.0  |
| SEWARD       | 16        | 18.7 | 7         | 7.3  |
| SHERIDAN     | *         | **   | *         | **   |
| SHERMAN      | *         | **   | *         | **   |
| SIOUX        | *         | **   | *         | **   |
| STANTON      | *         | **   | *         | **   |
| THAYER       | 5         | **   | 5         | **   |
| THOMAS       | *         | **   | 0         | 0.0  |
| THURSTON     | 5         | **   | *         | **   |
| VALLEY       | 6         | 15.7 | *         | **   |
| WASHINGTON   | 15        | 13.2 | 3         | **   |
| WAYNE        | 5         | **   | *         | **   |
| WEBSTER      | *         | **   | 0         | 0.0  |
| WHEELER      | *         | **   | *         | **   |
| YORK         | 14        | 15.0 | 4         | **   |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 17: Melanoma of the Skin Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 285,113          | 19.1        | 43,878           | 2.7         |
| NEBRASKA      | 1,672            | 17.8        | 290              | 2.9         |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 44               | 25.7        | 9                | 5.0         |
| ANTELOPE      | 11               | 22.7        | 3                | **          |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | *                | **          | 0                | 0.0         |
| BLAINE        | *                | **          | 0                | 0.0         |
| BOONE         | 10               | 33.8        | 0                | 0.0         |
| BOX BUTTE     | 11               | 16.1        | 3                | **          |
| BOYD          | *                | **          | 0                | 0.0         |
| BROWN         | *                | **          | *                | **          |
| BUFFALO       | 20               | 9.2▼        | 13               | 6.2         |
| BURT          | 15               | 34.0        | *                | **          |
| BUTLER        | 12               | 21.8        | 4                | **          |
| CASS          | 29               | 21.1        | 8                | 5.4         |
| CEDAR         | 7                | 13.2        | *                | **          |
| CHASE         | 4                | **          | 0                | 0.0         |
| CHERRY        | 3                | **          | *                | **          |
| CHEYENNE      | 12               | 21.6        | *                | **          |
| CLAY          | 8                | 20.5        | *                | **          |
| COLFAX        | 12               | 20.7        | 3                | **          |
| CUMING        | 7                | 11.3        | 3                | **          |
| CUSTER        | 11               | 16.2        | 5                | **          |
| DAKOTA        | 10               | 10.6        | 4                | **          |
| DAWES         | 4                | **          | *                | **          |
| DAWSON        | 15               | 11.4        | 3                | **          |
| DEUEL         | *                | **          | 0                | 0.0         |
| DIXON         | 11               | 27.5        | 3                | **          |
| DODGE         | 21               | 9.6▼        | 8                | 3.4         |
| DOUGLAS       | 446              | 18.5        | 57               | 2.4         |
| DUNDY         | 8                | 50.4        | 0                | 0.0         |
| FILLMORE      | 7                | 17.1        | 4                | **          |
| FRANKLIN      | 3                | **          | 0                | 0.0         |
| FRONTIER      | *                | **          | 0                | 0.0         |
| FURNAS        | 7                | 21.1        | 0                | 0.0         |
| GAGE          | 24               | 16.9        | 5                | **          |
| GARDEN        | 3                | **          | *                | **          |
| GARFIELD      | *                | **          | 0                | 0.0         |
| GOSPER        | *                | **          | 0                | 0.0         |
| GRANT         | 3                | **          | 0                | 0.0         |
| GREELEY       | *                | **          | 0                | 0.0         |
| HALL          | 30               | 9.8▼        | 5                | **          |
| HAMILTON      | 5                | **          | 0                | 0.0         |
| HARLAN        | 5                | **          | 3                | **          |
| HAYES         | 0                | 0.0         | 0                | 0.0         |
| HITCHCOCK     | 4                | **          | 0                | 0.0         |
| HOLT          | 13               | 17.0        | *                | **          |
| HOOKER        | *                | **          | 0                | 0.0         |
| HOWARD        | 6                | 13.9        | *                | **          |
| JEFFERSON     | 6                | 10.8        | *                | **          |

**TABLE 17 (continued): Melanoma of the Skin Incidence and Mortality**

| COUNTY       | Incidence |       | Mortality |      |
|--------------|-----------|-------|-----------|------|
|              | # Cases   | Rate  | # Deaths  | Rate |
| JOHNSON      | 3         | **    | 0         | 0.0  |
| KEARNEY      | 6         | 15.2  | *         | **   |
| KEITH        | 5         | **    | *         | **   |
| KEYA PAHA    | *         | **    | 0         | 0.0  |
| KIMBALL      | 4         | **    | *         | **   |
| KNOX         | 14        | 25.9  | *         | **   |
| LANCASTER    | 261       | 19.8  | 37        | 2.9  |
| LINCOLN      | 30        | 15.3  | 7         | 3.2  |
| LOGAN        | 0         | 0.0   | 0         | 0.0  |
| LOUP         | 0         | 0.0   | 0         | 0.0  |
| McPHERSON    | 0         | 0.0   | 0         | 0.0  |
| MADISON      | 39        | 22.0  | *         | **   |
| MERRICK      | 8         | 17.7  | *         | **   |
| MORRILL      | 4         | **    | *         | **   |
| NANCE        | 3         | **    | 0         | 0.0  |
| NEMAHA       | 9         | 19.6  | 3         | **   |
| NUCKOLLS     | 14        | 39.7△ | *         | **   |
| OTOE         | 14        | 16.6  | *         | **   |
| PAWNEE       | 4         | **    | *         | **   |
| PERKINS      | 6         | 25.3  | 0         | 0.0  |
| PHELPS       | 11        | 19.0  | 4         | **   |
| PIERCE       | 6         | 16.1  | *         | **   |
| PLATTE       | 32        | 17.8  | 5         | **   |
| POLK         | 10        | 29.8  | *         | **   |
| RED WILLOW   | 13        | 18.4  | *         | **   |
| RICHARDSON   | 3         | **    | 4         | **   |
| ROCK         | *         | **    | 0         | 0.0  |
| SALINE       | 17        | 22.5  | 7         | 9.0  |
| SARPY        | 134       | 21.1  | 16        | 2.7  |
| SAUNDERS     | 19        | 15.8  | 5         | **   |
| SCOTTS BLUFF | 36        | 16.7  | 8         | 3.5  |
| SEWARD       | 23        | 25.8  | *         | **   |
| SHERIDAN     | 3         | **    | *         | **   |
| SHERMAN      | 3         | **    | 0         | 0.0  |
| SIOUX        | 0         | 0.0   | *         | **   |
| STANTON      | 5         | **    | *         | **   |
| THAYER       | 10        | 17.0  | *         | **   |
| THOMAS       | 0         | 0.0   | 0         | 0.0  |
| THURSTON     | *         | **    | *         | **   |
| VALLEY       | 3         | **    | 0         | 0.0  |
| WASHINGTON   | 24        | 22.3  | 5         | **   |
| WAYNE        | 12        | 23.7  | *         | **   |
| WEBSTER      | 8         | 26.4  | *         | **   |
| WHEELER      | 0         | 0.0   | 0         | 0.0  |
| YORK         | 11        | 12.6  | 4         | **   |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 population and are age-adjusted to the 2000 U.S. population

▽ county rate is significantly lower than the state rate (95% confidence level)

▼ county rate is significantly lower than the state rate (99% confidence level)

△ county rate is significantly higher than the state rate (95% confidence level)

▲ county rate is significantly higher than the state rate (99% confidence level)

**TABLE 18: Pancreatic Cancer Incidence and Mortality**  
**Number of Cases, Deaths, and Rates, by County of Residence**  
 Nebraska & U.S. (2006-2010)

|               | <u>Incidence</u> |             | <u>Mortality</u> |             |
|---------------|------------------|-------------|------------------|-------------|
|               | <u># Cases</u>   | <u>Rate</u> | <u># Deaths</u>  | <u>Rate</u> |
| U.S.          | 181,422          | 12.0        | 175,323          | 10.9        |
| NEBRASKA      | 1,144            | 11.5        | 1,079            | 10.8        |
| <u>COUNTY</u> |                  |             |                  |             |
| ADAMS         | 19               | 9.3         | 18               | 8.4         |
| ANTELOPE      | 8                | 15.2        | 7                | 13.2        |
| ARTHUR        | 0                | 0.0         | 0                | 0.0         |
| BANNER        | *                | **          | *                | **          |
| BLAINE        | *                | **          | *                | **          |
| BOONE         | 3                | **          | 6                | 11.4        |
| BOX BUTTE     | 15               | 20.3        | 9                | 12.9        |
| BOYD          | 0                | 0.0         | *                | **          |
| BROWN         | *                | **          | *                | **          |
| BUFFALO       | 16               | 6.8▽        | 16               | 6.5▽        |
| BURT          | 6                | 9.5         | 6                | 9.2         |
| BUTLER        | 5                | **          | 5                | **          |
| CASS          | 18               | 13.0        | 17               | 11.8        |
| CEDAR         | 9                | 12.9        | 9                | 11.2        |
| CHASE         | *                | **          | *                | **          |
| CHERRY        | 4                | **          | 4                | **          |
| CHEYENNE      | 5                | **          | 6                | 9.8         |
| CLAY          | 7                | 14.3        | 5                | **          |
| COLFAX        | 4                | **          | *                | **          |
| CUMING        | 11               | 17.5        | 12               | 16.7        |
| CUSTER        | 9                | 9.1         | 5                | **          |
| DAKOTA        | 12               | 11.4        | 11               | 10.6        |
| DAWES         | 12               | 20.9        | 10               | 17.2        |
| DAWSON        | 10               | 7.3         | 11               | 8.1         |
| DEUEL         | *                | **          | *                | **          |
| DIXON         | 3                | **          | 3                | **          |
| DODGE         | 30               | 11.0        | 32               | 11.7        |
| DOUGLAS       | 310              | 13.3        | 279              | 12.2        |
| DUNDY         | 0                | 0.0         | 0                | 0.0         |
| FILLMORE      | 7                | 12.8        | 9                | 15.8        |
| FRANKLIN      | 3                | **          | 3                | **          |
| FRONTIER      | 3                | **          | 3                | **          |
| FURNAS        | 7                | 18.4        | 5                | **          |
| GAGE          | 20               | 11.2        | 15               | 8.1         |
| GARDEN        | 3                | **          | *                | **          |
| GARFIELD      | 0                | 0.0         | 0                | 0.0         |
| GOSPER        | 4                | **          | *                | **          |
| GRANT         | *                | **          | *                | **          |
| GREELEY       | *                | **          | *                | **          |
| HALL          | 44               | 13.9        | 38               | 12.1        |
| HAMILTON      | 5                | **          | 4                | **          |
| HARLAN        | 5                | **          | 3                | **          |
| HAYES         | 0                | 0.0         | 0                | 0.0         |
| HITCHCOCK     | *                | **          | *                | **          |
| HOLT          | 9                | 10.0        | 7                | 8.0         |
| HOOKER        | 0                | 0.0         | *                | **          |
| HOWARD        | 4                | **          | 4                | **          |
| JEFFERSON     | 7                | 10.2        | 10               | 14.6        |

**TABLE 18 (continued): Pancreatic Cancer Incidence and Mortality**

| COUNTY       | Incidence |      | Mortality |      |
|--------------|-----------|------|-----------|------|
|              | # Cases   | Rate | # Deaths  | Rate |
| JOHNSON      | 3         | **   | 0         | 0.0  |
| KEARNEY      | *         | **   | 4         | **   |
| KEITH        | 9         | 13.8 | 8         | 11.8 |
| KEYA PAHA    | 0         | 0.0  | *         | **   |
| KIMBALL      | 4         | **   | 3         | **   |
| KNOX         | 10        | 13.4 | 13        | 16.7 |
| LANCASTER    | 137       | 10.8 | 141       | 11.1 |
| LINCOLN      | 20        | 8.7  | 20        | 8.5  |
| LOGAN        | *         | **   | 0         | 0.0  |
| LOUP         | 0         | 0.0  | 0         | 0.0  |
| McPHERSON    | 3         | **   | *         | **   |
| MADISON      | 28        | 14.1 | 26        | 13.5 |
| MERRICK      | 8         | 15.2 | 5         | **   |
| MORRILL      | *         | **   | *         | **   |
| NANCE        | 6         | 19.7 | 6         | 20.1 |
| NEMAHA       | *         | **   | 4         | **   |
| NUCKOLLS     | 3         | **   | *         | **   |
| OTOE         | 10        | 9.2  | 11        | 10.2 |
| PAWNEE       | *         | **   | *         | **   |
| PERKINS      | *         | **   | 4         | **   |
| PHELPS       | 3         | **   | 4         | **   |
| PIERCE       | 6         | 12.9 | 6         | 12.8 |
| PLATTE       | 11        | 6.2▽ | 18        | 9.6  |
| POLK         | 3         | **   | 4         | **   |
| RED WILLOW   | 14        | 16.5 | 16        | 18.9 |
| RICHARDSON   | 14        | 22.1 | 10        | 14.0 |
| ROCK         | 3         | **   | *         | **   |
| SALINE       | 13        | 16.8 | 12        | 15.6 |
| SARPY        | 66        | 11.8 | 57        | 11.2 |
| SAUNDERS     | 22        | 17.2 | 18        | 14.3 |
| SCOTTS BLUFF | 25        | 10.6 | 23        | 9.4  |
| SEWARD       | 12        | 12.5 | 15        | 15.1 |
| SHERIDAN     | 4         | **   | *         | **   |
| SHERMAN      | 3         | **   | 4         | **   |
| SIOUX        | *         | **   | 3         | **   |
| STANTON      | 0         | 0.0  | *         | **   |
| THAYER       | 6         | 10.5 | 6         | 9.3  |
| THOMAS       | 0         | 0.0  | 0         | 0.0  |
| THURSTON     | 4         | **   | 3         | **   |
| VALLEY       | 4         | **   | 5         | **   |
| WASHINGTON   | 7         | 6.0▽ | 9         | 7.1  |
| WAYNE        | 6         | 11.9 | 7         | 13.3 |
| WEBSTER      | 7         | 18.5 | 6         | 16.8 |
| WHEELER      | *         | **   | *         | **   |
| YORK         | 12        | 13.1 | 5         | **   |

\*Number is not shown if based on fewer than three events

\*\*Rate is not shown if based on five or fewer events

Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. population

▽county rate is significantly lower than the state rate (95% confidence level)

▼county rate is significantly lower than the state rate (99% confidence level)

△county rate is significantly higher than the state rate (95% confidence level)

▲county rate is significantly higher than the state rate (99% confidence level)

**TABLE 19: Cancer Incidence**  
**Number of Cases and Rates, All Sites and Selected Primary Sites, by Place of Residence**  
 Nebraska and Public Health Department Regions (2006-2010)

|                          | All Sites |        | Lung & Bronchus |       | Female Breast |       | Colon & Rectum |       | Prostate |        |
|--------------------------|-----------|--------|-----------------|-------|---------------|-------|----------------|-------|----------|--------|
|                          | Number    | Rate   | Number          | Rate  | Number        | Rate  | Number         | Rate  | Number   | Rate   |
| NEBRASKA                 | 45,184    | 464.5  | 5,978           | 61.3  | 6,257         | 122.3 | 5,004          | 50.6  | 6,424    | 143.0  |
| Central                  | 1,976     | 473.8  | 235             | 55.7  | 244           | 112.2 | 229            | 52.9  | 325      | 164.0  |
| Dakota County            | 425       | 425.3  | 75              | 74.2  | 46            | 85.2▼ | 56             | 57.2  | 57       | 121.4  |
| Douglas County           | 11,696    | 495.6▲ | 1,664           | 73.0▲ | 1,681         | 129.4 | 1,140          | 49.2  | 1,532    | 146.5  |
| East Central             | 1,370     | 447.5  | 176             | 56.1  | 171           | 108.3 | 178            | 56.1  | 229      | 161.5  |
| Elkhorn Logan Valley     | 1,588     | 449.4  | 234             | 64.2  | 209           | 119.1 | 193            | 51.1  | 253      | 153.6  |
| Four Corners             | 1,240     | 436.5  | 115             | 39.5▼ | 189           | 127.6 | 145            | 48.9  | 166      | 121.6  |
| Lincoln/Lancaster County | 5,931     | 455.1  | 745             | 58.5  | 909           | 129.6 | 586            | 45.7  | 739      | 123.5▼ |
| Loup Basin               | 1,054     | 445.5  | 155             | 62.2  | 119           | 104.1 | 123            | 49.2  | 192      | 165.6  |
| North Central            | 1,541     | 448.2  | 210             | 56.5  | 188           | 112.0 | 217            | 58.3  | 275      | 164.3  |
| Northeast                | 748       | 396.9▼ | 81              | 41.4▼ | 89            | 93.4▽ | 94             | 48.8  | 120      | 134.3  |
| Panhandle                | 1,388     | 408.7▼ | 171             | 48.5▼ | 204           | 117.5 | 137            | 39.3▼ | 224      | 136.2  |
| Public Health Solutions  | 1,804     | 465.1  | 234             | 57.2  | 235           | 120.0 | 232            | 57.6  | 229      | 125.9  |
| Sandhills                | 323       | 398.4▼ | 37              | 41.2▼ | 38            | 89.3▽ | 43             | 52.2  | 51       | 125.6  |
| Sarpy Cass County        | 3,651     | 489.1△ | 465             | 66.2  | 535           | 127.5 | 357            | 50.5  | 483      | 141.6  |
| Scotts Bluff County      | 1,029     | 446.2  | 113             | 46.9▼ | 168           | 138.8 | 111            | 48.3  | 169      | 158.5  |
| South Heartland          | 1,447     | 488.3  | 195             | 62.6  | 195           | 135.5 | 201            | 62.8△ | 205      | 145.6  |
| Southeast                | 1,214     | 439.7  | 171             | 59.2  | 154           | 106.9 | 171            | 57.8  | 150      | 112.6▼ |
| Southwest                | 1,089     | 466.6  | 141             | 59.6  | 112           | 95.3▽ | 130            | 53.5  | 160      | 145.5  |
| Three Rivers             | 2,267     | 471.3  | 326             | 65.4  | 314           | 127.8 | 260            | 53.0  | 381      | 167.4△ |
| Two Rivers               | 2,343     | 442.0▽ | 282             | 52.2▽ | 323           | 116.8 | 303            | 55.7  | 345      | 136.2  |
| West Central             | 1,060     | 471.8  | 153             | 67.1  | 134           | 119.5 | 98             | 42.7  | 139      | 130.4  |

TABLE 19 (continued): Cancer Incidence

|                          | Urinary Bladder |       | Non-Hodgkin Lymphoma |       | Leukemia |      | Kidney & Renal Pelvis |       | Melanoma of the Skin |       | Pancreas |      |
|--------------------------|-----------------|-------|----------------------|-------|----------|------|-----------------------|-------|----------------------|-------|----------|------|
|                          | Number          | Rate  | Number               | Rate  | Number   | Rate | Number                | Rate  | Number               | Rate  | Number   | Rate |
| NEBRASKA                 | 1,964           | 20.0  | 1,963                | 20.2  | 1,339    | 13.7 | 1,628                 | 16.8  | 1,672                | 17.8  | 1,144    | 11.5 |
| Central                  | 80              | 18.4  | 102                  | 24.2  | 54       | 13.1 | 95                    | 23.5△ | 43                   | 10.7▽ | 57       | 13.1 |
| Dakota County            | 17              | 17.6  | 15                   | 15.5  | 12       | 11.7 | 11                    | 11.2  | 10                   | 10.6  | 12       | 11.4 |
| Douglas County           | 504             | 22.1  | 516                  | 21.8  | 340      | 14.1 | 469                   | 19.7△ | 446                  | 18.5  | 310      | 13.3 |
| East Central             | 51              | 15.6  | 65                   | 22.0  | 45       | 14.4 | 37                    | 12.7  | 57                   | 19.3  | 24       | 7.5▽ |
| Elkhorn Logan Valley     | 58              | 14.8▽ | 65                   | 18.5  | 45       | 13.2 | 55                    | 15.8  | 66                   | 21.3  | 45       | 12.7 |
| Four Corners             | 60              | 19.1  | 57                   | 20.4  | 39       | 13.4 | 46                    | 16.4  | 56                   | 21.5  | 32       | 11.1 |
| Lincoln/Lancaster County | 225             | 18.1  | 264                  | 20.5  | 179      | 13.8 | 202                   | 15.4  | 261                  | 19.8  | 137      | 10.8 |
| Loup Basin               | 47              | 17.1  | 46                   | 19.1  | 40       | 16.7 | 26                    | 11.0▽ | 27                   | 13.4  | 23       | 8.7  |
| North Central            | 63              | 16.6  | 56                   | 16.1  | 46       | 14.6 | 44                    | 13.8  | 52                   | 16.8  | 41       | 10.8 |
| Northeast                | 31              | 15.9  | 38                   | 19.6  | 25       | 13.2 | 29                    | 15.9  | 32                   | 17.2  | 22       | 10.7 |
| Panhandle                | 69              | 19.0  | 58                   | 17.0  | 45       | 12.6 | 47                    | 14.5  | 44                   | 15.1  | 48       | 13.5 |
| Public Health Solutions  | 82              | 18.4  | 71                   | 17.8  | 56       | 13.4 | 57                    | 16.2  | 64                   | 17.6  | 53       | 12.3 |
| Sandhills                | 16              | 18.4  | 10                   | 13.5  | 12       | 13.9 | 13                    | 14.8  | 9                    | 15.4  | 10       | 11.8 |
| Sarpy Cass County        | 146             | 21.4  | 158                  | 21.9  | 103      | 13.5 | 151                   | 19.8  | 163                  | 20.7  | 84       | 12.1 |
| Scotts Bluff County      | 57              | 23.7  | 39                   | 16.8  | 33       | 14.2 | 31                    | 13.0  | 36                   | 16.7  | 25       | 10.6 |
| South Heartland          | 56              | 17.3  | 67                   | 22.6  | 44       | 14.2 | 30                    | 10.8▽ | 74                   | 27.0△ | 36       | 10.8 |
| Southeast                | 58              | 20.0  | 55                   | 19.2  | 37       | 12.6 | 42                    | 14.8  | 33                   | 13.6  | 31       | 11.0 |
| Southwest                | 70              | 27.4△ | 52                   | 21.2  | 39       | 17.1 | 34                    | 14.9  | 44                   | 19.7  | 28       | 11.4 |
| Three Rivers             | 103             | 21.0  | 112                  | 23.0  | 52       | 10.9 | 86                    | 17.9  | 64                   | 14.4  | 59       | 11.6 |
| Two Rivers               | 113             | 20.7  | 72                   | 13.5▼ | 52       | 9.9▽ | 87                    | 16.3  | 61                   | 11.9▼ | 43       | 7.6▼ |
| West Central             | 58              | 24.8  | 45                   | 19.8  | 41       | 17.8 | 36                    | 16.2  | 30                   | 14.7  | 24       | 10.2 |

\*\*Rate not shown if based on five or fewer events

▽regional rate is significantly lower than the state rate (95% confidence level)

▼regional rate is significantly lower than the state rate (99% confidence level)

△regional rate is significantly higher than the state rate (95% confidence level)

▲regional rate is significantly higher than the state rate (99% confidence level)

Rates are per 100,000 population (excluding gender-specific sites, which are per 100,000 male or female population) and are age-adjusted to the 2000 U.S. population

**TABLE 20: Cancer Mortality**  
**Number of Deaths and Rates, All Sites and Selected Primary Sites, by Place of Residence**  
 Nebraska and Public Health Department Regions (2006-2010)

|                          | All Sites |        | Lung & Bronchus |       | Female Breast |       | Colon & Rectum |       | Prostate |      |
|--------------------------|-----------|--------|-----------------|-------|---------------|-------|----------------|-------|----------|------|
|                          | Number    | Rate   | Number          | Rate  | Number        | Rate  | Number         | Rate  | Number   | Rate |
| NEBRASKA                 | 17,053    | 170.6  | 4,537           | 46.2  | 1,115         | 20.1  | 1,813          | 17.8  | 931      | 22.9 |
| Central                  | 732       | 168.6  | 188             | 43.8  | 38            | 16.6  | 97             | 22.2  | 31       | 17.2 |
| Dakota County            | 166       | 166.4  | 52              | 52.2  | 6             | 10.4▽ | 19             | 19.0  | 10       | 26.0 |
| Douglas County           | 4,257     | 184.4▲ | 1,199           | 52.9▲ | 292           | 22.0  | 393            | 16.8  | 210      | 24.1 |
| East Central             | 526       | 163.5  | 136             | 42.9  | 40            | 23.4  | 74             | 23.3  | 23       | 16.7 |
| Elkhorn Logan Valley     | 647       | 173.5  | 167             | 45.7  | 45            | 21.6  | 84             | 21.8  | 33       | 20.1 |
| Four Corners             | 499       | 160.7  | 112             | 37.3▽ | 50            | 28.8  | 53             | 16.1  | 26       | 19.1 |
| Lincoln/Lancaster County | 2,050     | 159.1▽ | 549             | 43.4  | 124           | 16.9  | 182            | 14.0▼ | 117      | 23.6 |
| Loup Basin               | 451       | 173.7  | 120             | 47.1  | 28            | 18.7  | 46             | 17.1  | 30       | 25.8 |
| North Central            | 620       | 164.2  | 167             | 43.8  | 28            | 13.7▽ | 84             | 21.3  | 39       | 22.9 |
| Northeast                | 315       | 156.1  | 60              | 30.4▼ | 20            | 20.0  | 46             | 21.9  | 21       | 23.2 |
| Panhandle                | 568       | 155.2▽ | 129             | 35.6  | 40            | 20.9  | 55             | 14.5  | 42       | 26.2 |
| Public Health Solutions  | 754       | 173.2  | 177             | 43.7  | 38            | 15.7  | 93             | 20.6  | 53       | 27.4 |
| Sandhills                | 142       | 166.2  | 35              | 39.9  | 7             | 15.2  | 17             | 19.7  | 9        | 23.7 |
| Sarpy Cass County        | 1,231     | 179.2  | 343             | 48.8  | 79            | 20.1  | 117            | 17.4  | 51       | 21.9 |
| Scotts Bluff County      | 395       | 161.6  | 97              | 39.2  | 34            | 26.1  | 34             | 13.5  | 21       | 20.0 |
| South Heartland          | 545       | 168.3  | 154             | 48.4  | 33            | 19.0  | 57             | 17.1  | 34       | 24.4 |
| Southeast                | 508       | 166.7  | 133             | 45.4  | 36            | 18.5  | 59             | 18.6  | 41       | 30.4 |
| Southwest                | 428       | 167.5  | 119             | 49.3  | 26            | 16.6  | 45             | 16.7  | 18       | 16.1 |
| Three Rivers             | 943       | 186.4△ | 277             | 55.1△ | 59            | 21.1  | 112            | 22.1  | 44       | 20.7 |
| Two Rivers               | 890       | 161.3  | 217             | 39.4  | 61            | 20.7  | 110            | 19.4  | 59       | 25.1 |
| West Central             | 386       | 166.2  | 106             | 45.7  | 31            | 25.9  | 36             | 14.8  | 19       | 20.4 |



TABLE 20 (continued): Cancer Mortality

|                          | Urinary Bladder |      | Non-Hodgkin Lymphoma |      | Leukemia |      | Kidney & Renal Pelvis |      | Melanoma of the Skin |      | Pancreas |      |
|--------------------------|-----------------|------|----------------------|------|----------|------|-----------------------|------|----------------------|------|----------|------|
|                          | Number          | Rate | Number               | Rate | Number   | Rate | Number                | Rate | Number               | Rate | Number   | Rate |
| NEBRASKA                 | 414             | 4.0  | 699                  | 6.9  | 689      | 6.9  | 423                   | 4.3  | 290                  | 2.9  | 1,079    | 10.8 |
| Central                  | 21              | 4.6  | 26                   | 6.0  | 22       | 4.9  | 18                    | 4.1  | 6                    | 1.4▽ | 47       | 10.8 |
| Dakota County            | 5               | **   | 7                    | 7.4  | 5        | **   | 4                     | **   | 4                    | **   | 11       | 10.6 |
| Douglas County           | 121             | 5.4  | 168                  | 7.3  | 145      | 6.4  | 115                   | 5.0  | 57                   | 2.4  | 279      | 12.2 |
| East Central             | 16              | 4.5  | 16                   | 4.8  | 17       | 5.2  | 15                    | 4.6  | 8                    | 2.6  | 32       | 9.7  |
| Elkhorn Logan Valley     | 11              | 2.4  | 27                   | 7.2  | 20       | 5.5  | 15                    | 4.1  | 7                    | 2.1  | 45       | 12.3 |
| Four Corners             | 12              | 3.9  | 23                   | 6.7  | 21       | 6.6  | 19                    | 6.3  | 10                   | 3.2  | 29       | 9.7  |
| Lincoln/Lancaster County | 49              | 3.9  | 96                   | 7.4  | 92       | 6.9  | 47                    | 3.8  | 37                   | 2.9  | 141      | 11.1 |
| Loup Basin               | 14              | 4.7  | 12                   | 5.0  | 25       | 9.5  | 10                    | 3.7  | 6                    | 2.5  | 22       | 8.4  |
| North Central            | 14              | 3.4  | 26                   | 6.6  | 20       | 5.2  | 7                     | 2.7  | 9                    | 3.0  | 43       | 11.3 |
| Northeast                | 4               | **   | 14                   | 7.0  | 18       | 8.8  | 8                     | 3.8  | 7                    | 3.5  | 22       | 10.1 |
| Panhandle                | 11              | 2.8  | 23                   | 6.2  | 39       | 10.7 | 16                    | 4.3  | 12                   | 3.2  | 38       | 10.5 |
| Public Health Solutions  | 25              | 4.9  | 36                   | 7.7  | 28       | 6.2  | 16                    | 3.8  | 20                   | 4.5  | 52       | 11.7 |
| Sandhills                | 4               | **   | 2                    | **   | 7        | 9.7  | 2                     | **   | 1                    | **   | 10       | 11.3 |
| Sarpy Cass County        | 22              | 3.7  | 50                   | 7.6  | 52       | 7.2  | 35                    | 5.3  | 24                   | 3.2  | 74       | 11.2 |
| Scotts Bluff County      | 8               | 3.2  | 18                   | 7.0  | 18       | 7.1  | 12                    | 5.0  | 8                    | 3.5  | 23       | 9.4  |
| South Heartland          | 11              | 3.1  | 27                   | 8.1  | 26       | 7.6  | 12                    | 4.5  | 14                   | 4.8  | 31       | 9.1  |
| Southeast                | 4               | **   | 22                   | 6.9  | 25       | 8.1  | 12                    | 4.1  | 9                    | 3.2  | 26       | 8.9  |
| Southwest                | 103             | 5.0  | 28                   | 10.8 | 16       | 6.2  | 6                     | 2.4  | 2                    | **   | 31       | 12.0 |
| Three Rivers             | 18              | 3.3  | 45                   | 8.4  | 35       | 6.6  | 26                    | 5.1  | 18                   | 3.7  | 59       | 11.4 |
| Two Rivers               | 21              | 3.9  | 22                   | 3.7▼ | 46       | 8.6  | 25                    | 4.7  | 24                   | 4.8  | 43       | 7.6▽ |
| West Central             | 10              | 4.3  | 11                   | 4.3  | 12       | 5.2  | 3                     | **   | 7                    | 3.1  | 21       | 8.6  |

\*\*Rate not shown if based on five or fewer events

▽regional rate is significantly lower than the state rate (95% confidence level)

▼regional rate is significantly lower than the state rate (99% confidence level)

△regional rate is significantly higher than the state rate (95% confidence level)

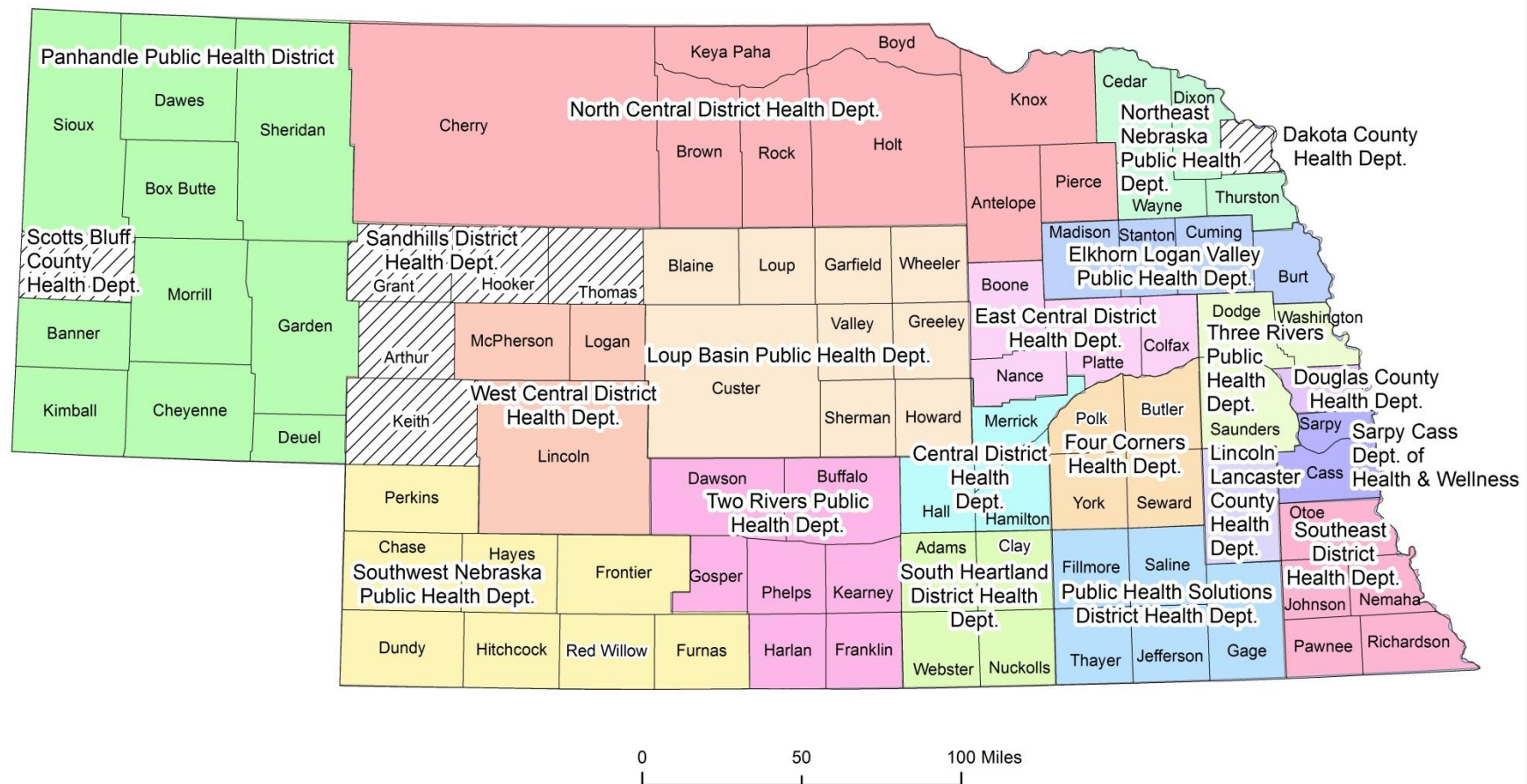
▲regional rate is significantly higher than the state rate (99% confidence level)

Rates are per 100,000 population (excluding gender-specific sites, which are per 100,000 male or female population) and are age-adjusted to the 2000 U.S. population


## Public Health Department Regions in Nebraska

| <u>#</u> | <u>Public Health Department</u> | <u>Jurisdiction, by County</u>   |
|----------|---------------------------------|--|
| 1        | Central                         | Hall, Hamilton, Merrick  |
| 2        | Dakota County                   | Dakota   |
| 3        | Douglas County                  | Douglas  |
| 4        | East Central                    | Boone, Colfax, Nance, Platte   |
| 5        | Elkhorn Logan Valley            | Burt, Cuming, Madison, Stanton   |
| 6        | Four Corners                    | Butler, Polk, Seward, York   |
| 7        | Lincoln-Lancaster County        | Lancaster  |
| 8        | Loup Basin                      | Blaine, Custer, Garfield, Greeley, Howard, Loup, Sherman, Valley, Wheeler            |
| 9        | North Central                   | Antelope, Boyd, Brown, Cherry, Holt, Keya Paha, Knox, Pierce, Rock                   |
| 10       | Northeast Nebraska              | Cedar, Dixon, Thurston, Wayne  |
| 11       | Panhandle                       | Banner, Box Butte, Cheyenne, Dawes, Deuel, Garden, Kimball, Morrill, Sheridan, Sioux |
| 12       | Public Health Solutions         | Fillmore, Gage, Jefferson, Saline, Thayer  |
| 13       | Sandhills                       | Arthur, Grant, Hooker, Keith, Thomas   |
| 13       | Sarpy Cass                      | Cass, Sarpy  |
| 14       | Scotts Bluff County             | Scotts Bluff   |
| 15       | South Heartland                 | Adams, Clay, Nuckolls, Webster   |
| 16       | Southeast                       | Johnson, Nemaha, Otoe, Pawnee, Richardson  |
| 17       | Southwest Nebraska              | Chase, Dundy, Frontier, Furnas, Hayes, Hitchcock, Perkins, Red Willow,               |
| 18       | Three Rivers                    | Dodge, Saunders, Washington  |
| 19       | Two Rivers                      | Buffalo, Dawson, Franklin, Gosper, Harlan, Kearney, Phelps                           |
| 20       | West Central                    | Lincoln, Logan, McPherson  |

# Nebraska Local Health Departments



## Legend

 Local Health Departments that do not Qualify for LB 692\* Funding

\*LB 692 passed during the 2001 Legislative Session and provides funds to qualifying local public health departments.

Source: Nebraska Department of Health and Human Services

Map Created by:  
Public Health GIS Analyst  
DHHS GIS 6/10

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## REPORTING FACILITIES

Ainsworth--Brown County Hospital  
Albion--Boone County Health Center  
Alliance--Box Butte General Hospital  
Alma--Harlan County Health System  
Atkinson--West Holt Memorial Hospital, Inc.  
Auburn--Nemaha County Hospital  
Aurora--Memorial Hospital  
Bassett--Rock County Hospital  
Beatrice--Beatrice Community Hosp. & Hlth. Ctr., Inc.  
Benkelman--Dundy County Hospital  
Blair--Memorial Community Hospital  
Bridgeport--Morrill County Community Hospital  
Broken Bow--Jennie Melham Memorial Medical Ctr.  
Callaway--Callaway District Hospital  
Cambridge--Tri Valley Health System  
Central City--Litzenberg Memorial County Hospital  
Chadron--Chadron Community Hosp. & Hlth. Svcs.  
Columbus--Columbus Community Hospital, Inc.  
Cozad--Cozad Community Hospital  
Creighton--Creighton Area Health Services  
Crete--Crete Area Medical Center  
David City--Butler County Health Care Center  
Fairbury--Jefferson Community Health Center, Inc.  
Falls City--Community Medical Center, Inc.  
Franklin--Franklin County Memorial Hospital  
Fremont--Fremont Area Medical Center  
Friend--Warren Memorial Hospital  
Geneva--Fillmore County Hospital  
Genoa--Genoa Community Hospital/LTC  
Gordon--Gordon Memorial Hospital District  
Gothenburg--Gothenburg Memorial Hospital  
Grand Island--St. Francis Medical Center  
Grant--Perkins County Health Services  
Hastings--Mary Lanning Memorial Hospital  
Hebron--Thayer County Health Services  
Henderson--Henderson Health Care Services  
Holdrege--Phelps Memorial Health Center  
Imperial--Chase County Community Hospital  
Kearney--Good Samaritan Hospital  
Kearney--Good Samaritan Hospital Pathology  
Kimball--Kimball Health Services & Hospital  
Lexington--Tri-County Area Hospital District  
Lincoln--Bryan Medical Center East & West  
Lincoln--Saint Elizabeth Regional Medical Center  
Lincoln--Pathology Medical Services  
Lincoln--Williamsburg Radiation Center  
Lincoln--Nebraska Heart Hospital  
Lincoln - UNMC College of Dentistry  
Lynch--Niobrara Valley Hospital Corp.  
McCook--Community Hospital  
Minden--Kearney County Health Services  
Nebraska City--St. Mary's Hospital  
Neligh--Antelope Memorial Hospital

Norfolk--Faith Regional Health Services East & West  
North Platte--Great Plains Regional Medical Center  
North Platte--Pathology Services  
Oakland--Oakland Memorial Hospital  
Offutt AFB--Ehrling Berquist Hospital  
Ogallala--Ogallala Community Hospital  
Omaha--Alegent Health - Bergan Mercy Medical Ctr.  
Omaha--Alegent Health - Immanuel Medical Center  
Omaha--Children's Hospital  
Omaha--Methodist Hospital Pathology Center  
Omaha--Nebraska Medical Center  
Omaha--Nebraska Methodist Hospital  
Omaha--Creighton University Medical Center  
Omaha--Boys Town National Research Hospital  
Omaha--Alegent Lakeside Hospital  
Omaha--Bergan Mercy Medical Center Pathology  
Omaha--Bishop Clarkson Hospital Pathology  
Omaha--Creighton Pathology Associates  
Omaha--Physicians Lab  
O'Neill--Avera St. Anthony's Hospital  
Ord--Valley County Hospital  
Osceola--Annie Jeffrey Memorial County Health Ctr.  
Oshkosh--Garden County Health Services  
Osmond--Osmond General Hospital  
Papillion--Alegent Health Midlands Community Hosp.  
Pawnee City--Pawnee County Memorial Hospital  
Pender--Pender Community Hospital  
Plainview--Plainview Area Health System  
Red Cloud--Webster County Community Hospital  
Schuyler--Alegent Health Memorial Hospital  
Scottsbluff--Regional West Medical Center  
Scottsbluff--Western Pathology Consultants  
Seward--Memorial Hospital  
Sidney--Memorial Health Center  
St. Paul--Howard County Community Hospital  
Superior--Brodstone Memorial Hospital  
Syracuse--Community Memorial Hospital  
Tecumseh--Johnson County Hospital  
Tilden--Tilden Community Hospital  
Valentine--Cherry County Hospital  
Wahoo--Saunders County Health Services  
Wayne--Providence Medical Center  
West Point--St. Francis Memorial Hospital  
Winnebago--USPHS Indian Hospital  
York--York General Hospital

### Other States:

Sioux City, IA--Mercy Medical Center

State cancer registries of Alaska, Arizona, Arkansas, Colorado, Iowa, Kansas, Missouri, North Dakota, Oklahoma, South Dakota, and Wyoming

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